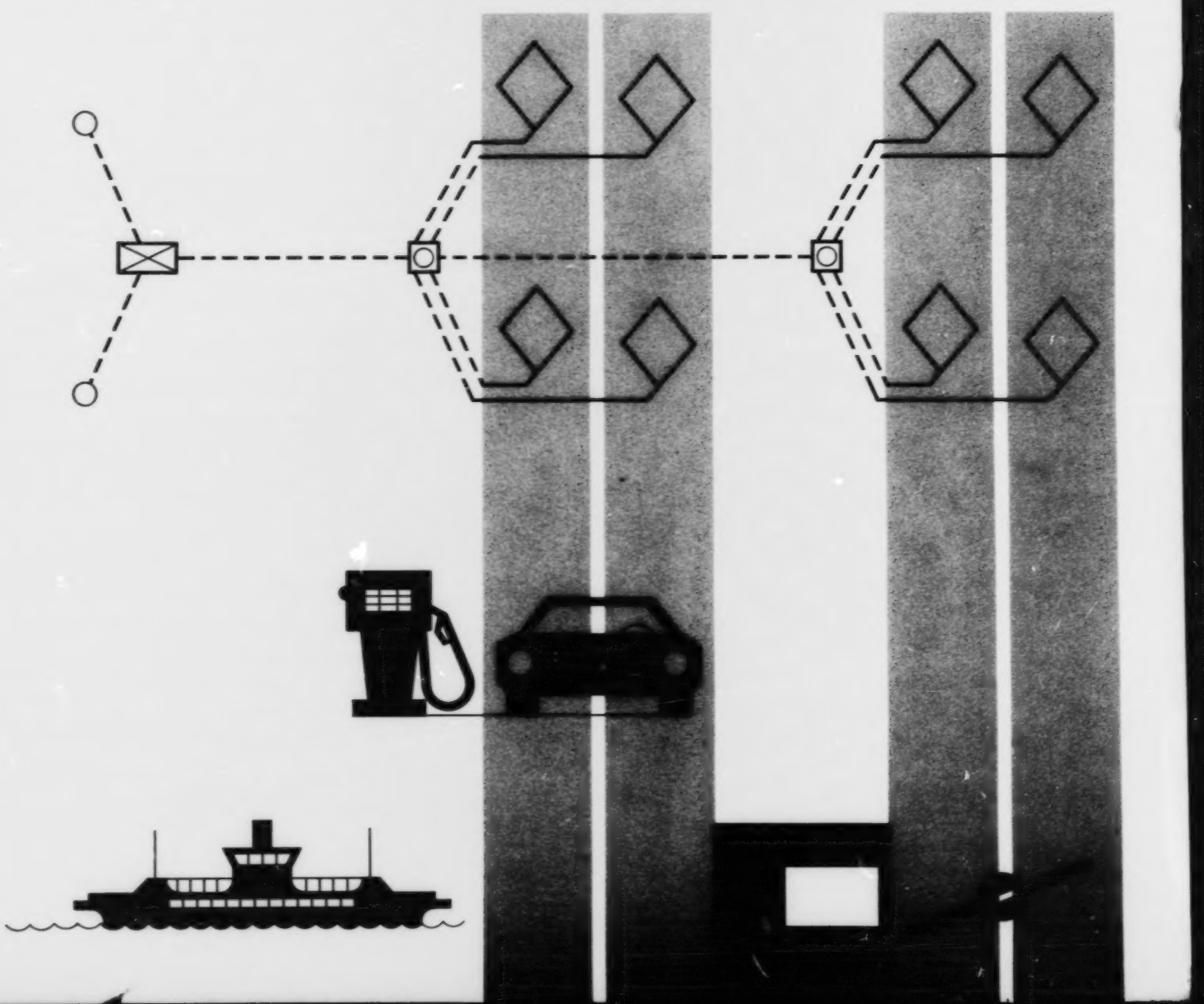
Ontario

Ministry
of
Transportation

Provincial Highways

Permanent Counting Stations Annual Report 1989



REPORT DOCUMENTATION PAGE

Permanent Counting Stations
Annual Report - 1989

Author(s)/ Composed by:		
Number:	TCB-HPO-003	ISSN 1183-2843
Date of Publication:	January, 1991	
Ministry Contact:	Highway Planning Office (416) 235-4115 Paul Saunders	
Abstract:	This annual publication contains selected traffic characteristics obtained from the Ministry of Transportation's operational permanent counting stations, border crossing information at international crossings with Ontario (where available), Ministry of Transportation operated ferry crossing information and freeway service centre usage information.	
Key Words:	permanent counting, ferry crossings, border crossings, service centres	
Published By:	Highway Traffic Characteristics	
Director:	K. R. Pask	
Manager:	J. F. Lucey	
Head:	M. Perera	
Distribution:	Ministry-wide, Engineering Consultants.	
Copyright Status:	Crown copyright 1991 Ministry of Transportation	

Ontario Ministry of Transportation | Transportation Capital Branch | Highway Planning Office

TCB - HPO - 003

Permanent Counting Stations

Annual Report 1989

Provincial Highways

Also including:
Ferry Crossings
Border Crossings
Service Centres

Published by:
The Highway Planning Office
Ministry of Transportation of Ontario

Published without prejudice as to the application of the findings.
Crown copyright reserved; however, this document may be reproduced for non- commercial purposes with attribution to the Ministry.

January 1991

91-05835/

Copies available at $6.00 from the Ontario Bookstore 880 Bay Street, Toronto for Personal Shopping. Out-of-Town customers write to Publications Ontario Bookstore, 5th Floor, 880 Bay Street, Toronto, Ontario, M7A 1N8. ***Telephone 326-5300.*** *Toll free long distance* ***1-800-668-9938.*** *Visa and Mastercard accepted.*

The statistics contained herein have been prepared based on data (both electronic and otherwise) obtained from sources considered to be reliable. The Ministry makes no representation or warranty, expressed or implied with respect to its accuracy or completeness.

PERMANENT COUNTING STATIONS ANNUAL REPORT - 1989

USER COMMENT FORM

Your comments and suggestions are solicited with a view to improving this report and determining the demand for its publication. Responses to the following questions are welcome.

For what purpose do you use this report?

Can the report be improved?

CUT ☞

Comments.

If you wish a reply, please provide your name and address in this space.

Name .....

Address .....

City ..... Province .....

Postal Code .....

Business
Reply Mail

No Postage Stamp
Necessary if mailed
in Canada

Postage will be paid by

MINISTRY OF TRANSPORTATION
TRANSPORTATION CAPITAL BRANCH
4th FLOOR, WEST TOWER
1201 WILSON AVENUE
DOWNSVIEW, ONTARIO.
M3M 1J8

FOLD HERE

TAPE PLEASE DO NOT STAPLE TAPE

PREFACE

The Permanent Counting Stations Report is an annual publication which is produced mainly for Ministry purposes but is also used quite extensively by municipalities, consulting firms and others.

Reliable, traffic volume and pattern information is essential for the application of traffic engineering techniques in the area of highway planning, operations and research analysis. The automated permanent counting stations are a continuous and diverse source providing traffic characteristics 365 days a year. Detailed hourly directional traffic volume information is stored in a database, from which selected traffic characteristics have been extracted and summarized for this publication. More detailed information may be made available to satisfy "users" specific needs on request. In addition to the permanent count station data, information on ferry crossings, border crossings and freeway service centres is also contained in this report.

James F Lucey

J.F. Lucey
Manager
Highway Planning Office

Table of Contents

I. PERMANENT COUNTING STATIONS (PCS)

		PAGE
Introduction		1
Map of -Locations in Northern Ontario		4
-Locations in Southern Ontario		5
Niagara (Homer)	(002)	6
Shelburne	(004)	8
Gravenhurst	(005)	10
Brampton	(022)	12
Keele East Ramp	(024)	14
Morrisburg (Rowena)	(027)	16
Grand Bend	(028)	18
Simcoe	(030)	20
Dixie	(031)	22
Port Hope	(032)	24
Nipigon	(033)	26
Belfield	(034)	28
Dunvegan	(035)	30
Port Severn	(036)	32
Maple	(037)	34
Woodstock (Drumbo)	(043)	36
Keele West Ramp	(044)	38
London	(045)	40
Thunder Bay (Finmark)	(047)	42
Ottawa	(074)	44
Keele	(075)	46
Liverpool	(077)	48
Kenora	(086)	50
Snelgrove	(090)	52
Kirby	(091)	54

Cont'd.

II. AUXILIARY STATIONS

	PAGE
Introduction	59
Map of -Locations in Northern Ontario	62
-Locations in Southern Ontario	63
FERRY CROSSINGS	
Glenora Ferry	67
Wolfe Island Ferry	68
BORDER CROSSINGS	
Alexandria Point Ferry	71
Cornwall Seaway Bridge	72
Peace Bridge	73
International Bridge	74
Thousand Island Bridge	75
Lewiston-Queenston Bridge	76
Rainbow Bridge	77
Whirlpool Bridge	78
Pelee Island Ferry	79
Pigeon River Bridge	80
Prescott Bridge	81
Rainy River Bridge	82
Bluewater Bridge	83
Sault Ste. Marie International Bridge	84
Bluewater Ferry	85
Walpole Island Ferry	86
Windsor (Tunnel only)*	87

* See Appendices for an explanation on the lack of information on the Ambassador Bridge Border Crossing (Windsor-Detroit)

Service Centres: Hwy 400 & Hwy 401

		PAGE
Hwy 400		
Service Centre Map		91
SB Major MacKenzie Drive & King City Road	(Esso)	93
NB Major MacKenzie Drive & King City Road	(Petro-Canada)	93
SB Hwy 89	(Petro-Canada)	94
NB Innisfil Beach Road & Hwy 27	(Prtro-Canada)	94
Hwy 401		
WB Ontario/Quebec Boundary & Curry Hill Road	(Shell)	95
WB Dickson Road & Upper Canada Road	(Esso)	95
EB Hwy 31 & Upper Canada Road	(Shell)	96
EB Thousand Islands Parkway & Mallorytown Road	(Esso)	96
WB Thousand Islands Parkway & Mallorytown Road	(Esso)	97
EB Hwy 38 & Wilton Road	(Esso)	97
WB Hwy 133 & Palace Road	(Petro-Canada)	98
EB Wooler Road & Hwy 30	(Petro-Canada)	98
WB Wooler Road & Hwy 30	(Shell)	99
EB Wesleyville Road & Newtonville Road	(Esso)	99
WB Newtonville Road & Mill Street	(Esso)	100
WB Hwy 6 & Waterloo/Wellington Road 33	(Petro-Canada)	100
EB Hwy 6 & Waterloo/Wellington Road 33	(Petro-Canada)	101
WB Sweaburg Road & Oxford Road 6	(Esso)	101
EB Sweaburg Road & Oxford Road 6	(Esso)	102
WB Currie Road & Hwy 76	(Petro-Canada)	102
EB Currie Road & Hwy 76	(Shell)	103
WB East & West Jct Hwy 2 - Tilbury	(Petro-Canada)	103
EB East & West Jct Hwy 2 - Tilbury	(Shell)	104

III. APPENDICES

a.	Glossary	107
b.	Adjustment Factors	108
c.	Correspondence regarding Ambassador Bridge Border Cossing data	114

Permanent Counting Stations
(P C S)

INTRODUCTION

Permanent Counting Stations

Permanent Counting Stations are located at designated sites on the Provincial Highway System. The stations operate throughout the year to gather data, to identify various traffic characteristics and to provide the major traffic patterns found on the Provincial Highway network. These traffic patterns provide the firm foundation necessary for the interpretation and application of short term seasonal count data. Since December 1985, all stations use model 170 controllers with transmission links to a central microcomputer. The Traffic Management and Engineering Office is the custodian for the operation of the Permanent Counting Stations.

1989 Permanent Counting Stations Operation

Twenty-three PCS stations reported traffic volume and traffic pattern information for the full 1989 calendar year.

INTRODUCTION

In some cases, external factors such as weather, construction, mechanical failure etc., made it necessary to estimate inappropriate or missing hourly volumes. The major periods of estimation are as follows:

PCS Name	PCS No.	Reason	Estimation Period
Homer	002	Detector	one northbound lane and southbound direction, Jan.- Dec.
Shelburne	004	Loop out, no hook up	both directions. Jan.-Dec.
Brampton	022	Detector, no loop hook up	one eastbound lane, Jan.- Apr. both directions, May-Dec.
Dixie	031	Detector	one eastbound lane, Jan.- Dec.
Port Hope	032	Detector	westbound lanes, Jan.-Dec.
Belfield	034	Detector	two westbound lanes, Jan. - Dec.
Dunvegan	035	Detector	both directions, Mar.- May, Oct.- Dec.
Maple	037	Detector	both directions, Jan.-Dec.
London	045	Loop out, no hook up	both directions, Jan.- Aug.
Keele	075	Detector	two eastbound lanes, Jan.- May one eastbound lane, Jul.- Dec.
Liverpool	077	Detector and Construction	both directions, Jan.-Dec.
Kirby	091	No loop hook-up	both directions, Jan.- Dec.

INTRODUCTION

1989 Permanent Counting Station (P.C.S.) Data Summary

On average, P.C.S. stations throughout the Province reported increases in traffic volumes as compared to 1988. Generally speaking the change from 1988 to 1989 is in the range of 2% to 7%.

The Greater Toronto Area (GTA) is showing an increase in traffic volumes of 4-6%. East of GTA, P.C.S. stations show a growth of 4-7% with some localized high growth between Cornwall and Brockville. West of GTA, P.C.S stations experience growth in the range of 3-4%. The Toronto-Sudbury and Toronto-North Bay corridors show an increase of over 2% and 5% respectively. Northwestern Ontario has registered growth with the increase in the range of 3-6% in its P.C.S.'s with an overall growth of 4%.

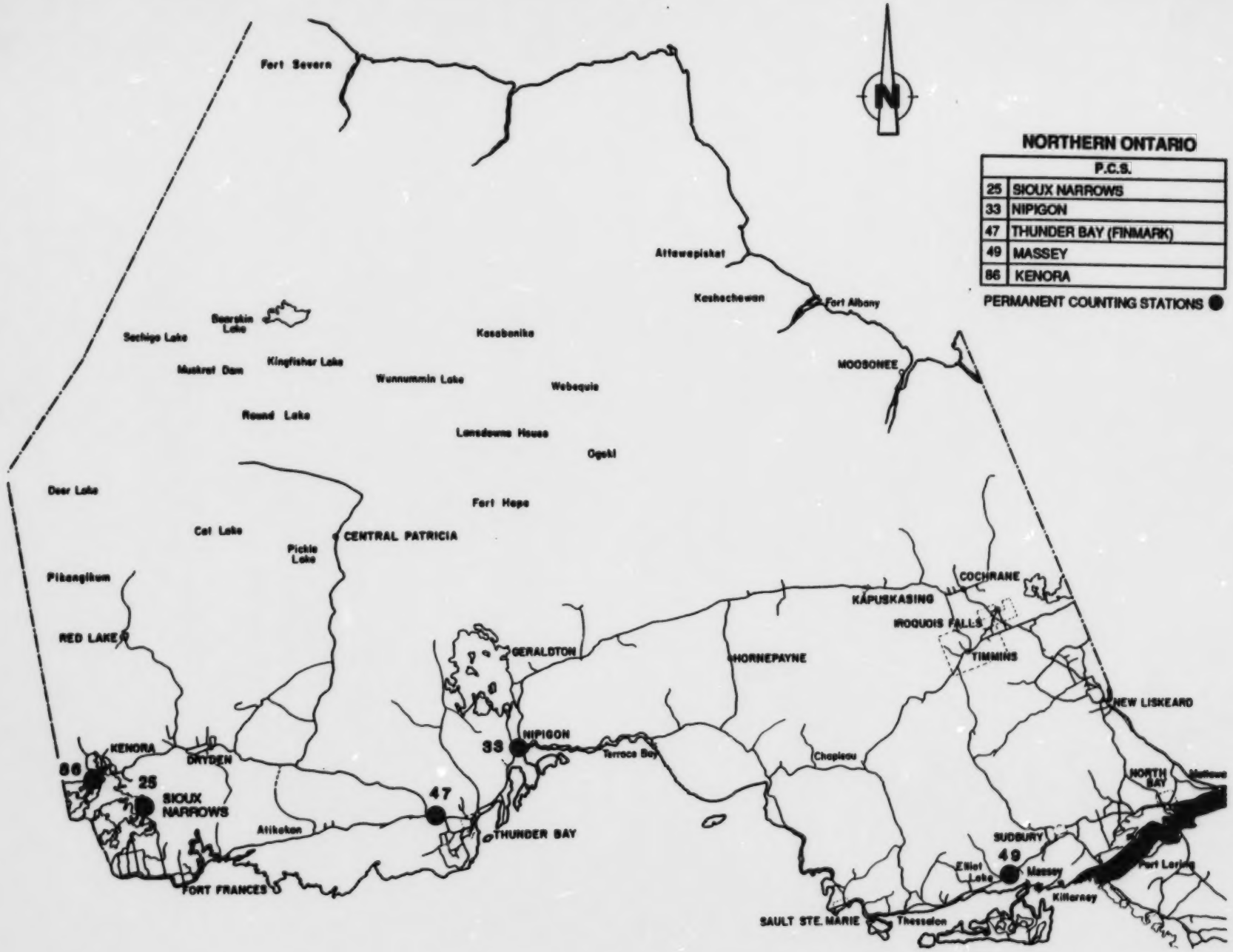
The above growth figures are concluded based on relevant P.C.S.'s for respective geographic areas/corridors. These are:

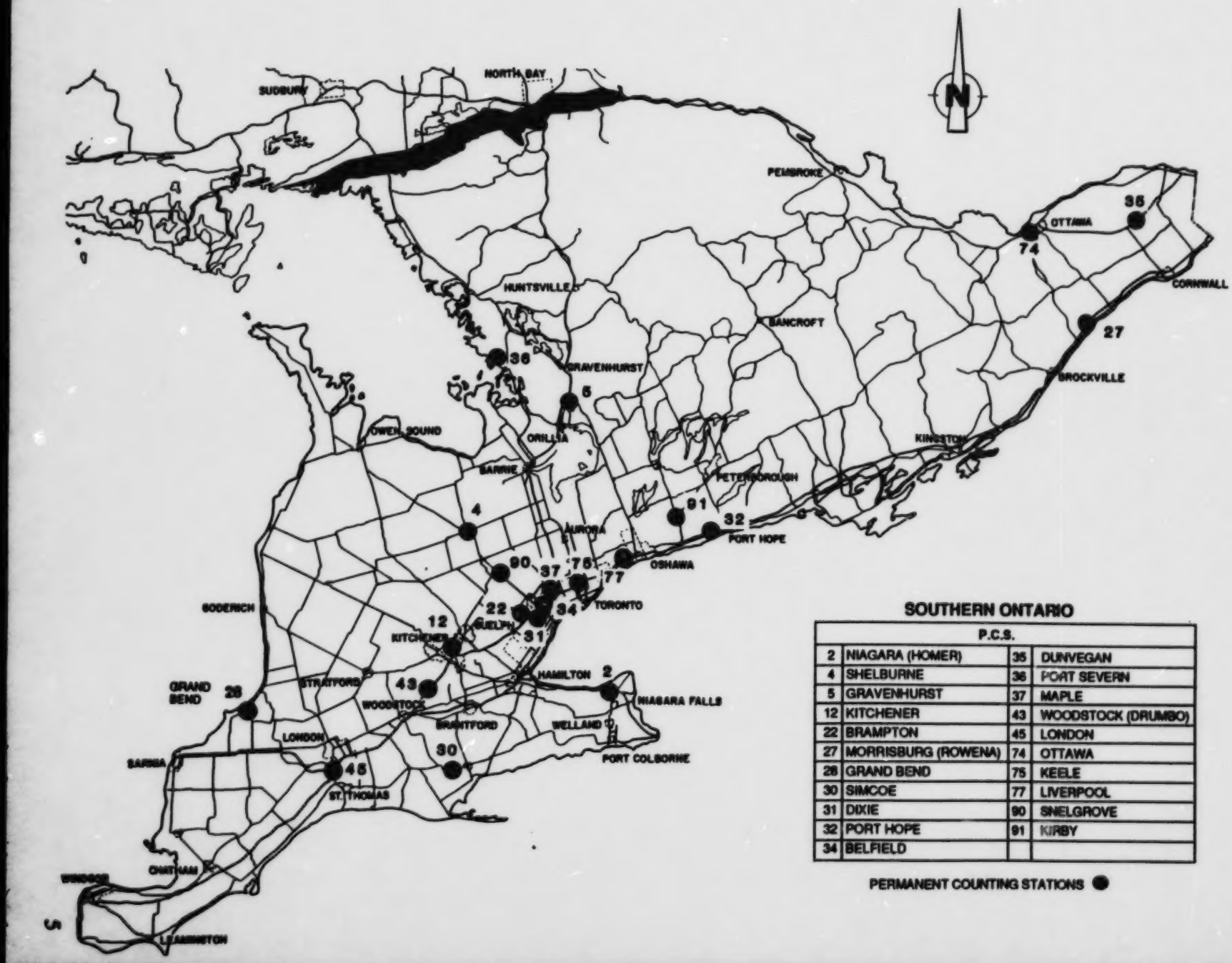
GTA	- 22, 31, 34, 37, 75, 77, 90, 91
East of G.T.A.	- 27, 32, 35, 74
West of G.T.A.	- 28, 30, 43, 45
Northwestern Ontario	- 33, 47, 86
Toronto-Sudbury Corridor	- 36
Toronto-North Bay Corridor	- 05

Some changes in the report have been made for better understanding. These are:-

(a) Some P.C.S. names have been changed to reflect more precisely their location, with previously used names in brackets.

(b) Where deemed necessary, secondary location descriptions have been added to help pinpoint the P.C.S. location on the road network.


NORTHERN ONTARIO
P.C.S.
25 SIOUX NARROWS
33 NIPIGON
47 THUNDER BAY (FINMARK)
49 MASSEY
86 KENORA
PERMANENT COUNTING STATIONS
N
Fort Severn
Attawapiskat
Kashechewan
Fort Albany
MOOSONEE
Sachigo Lake
Kingfisher Lake
Muskrat Dam
Wunnummin Lake
Kasabonika
Webequie
Round Lake
Lansdowne House
Ogoki
Deer Lake
Fort Hope
Cat Lake
CENTRAL PATRICIA
Pickle Lake
Pikangikum
RED LAKE
COCHRANE
KAPUSKASING
IROQUOIS FALLS
TIMMINS
HORNEPAYNE
GERALDTON
NEW LISKEARD
KENORA
DRYDEN
NIPIGON
Terrace Bay
Chapleau
NORTH BAY
SIOUX NARROWS
Atikokan
THUNDER BAY
SUDBURY
Elliot Lake
Massey
Killarney
Port Loring
FORT FRANCES
SAULT STE. MARIE
Thessalon

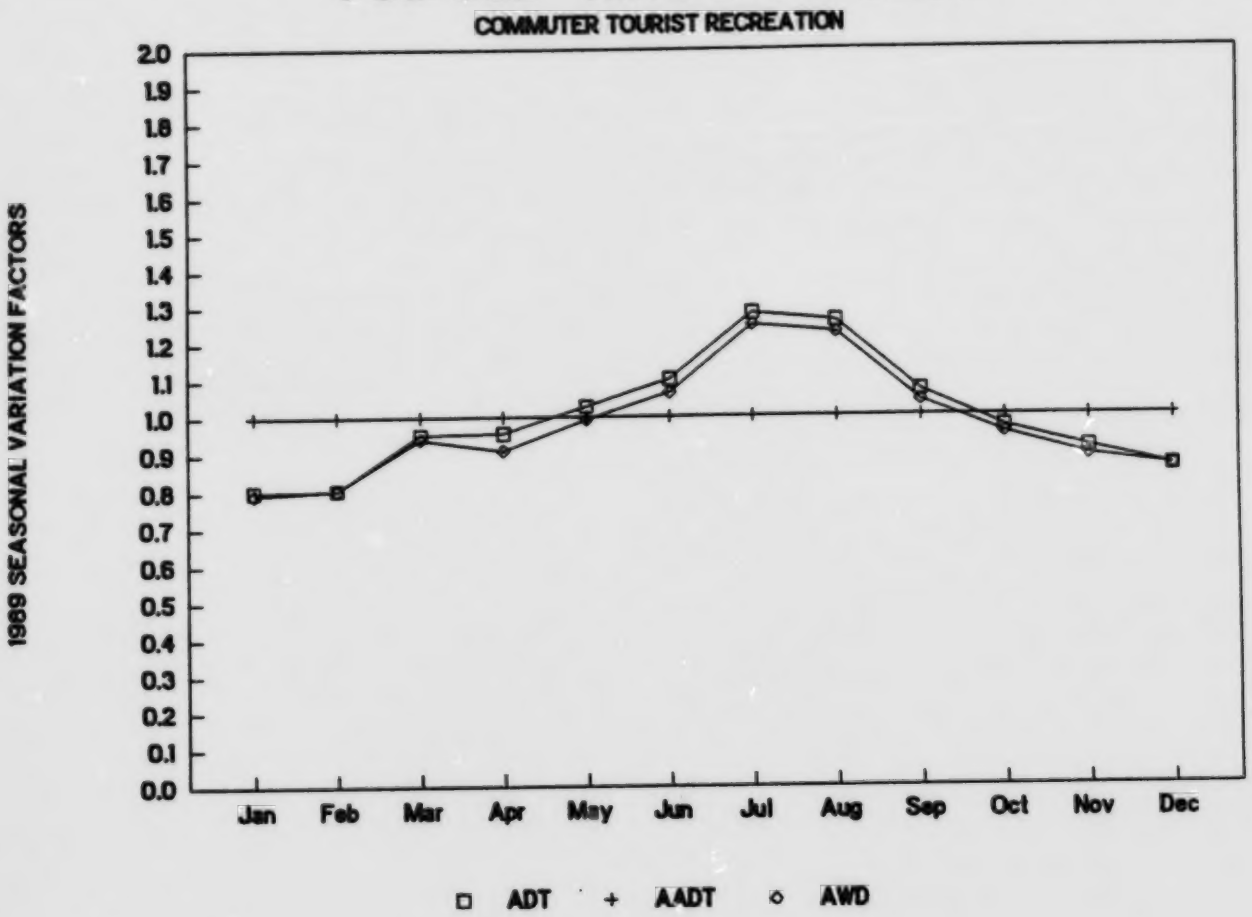


SOUTHERN ONTARIO

P.C.S.			
2	NIAGARA (HOMER)	35	DUNVEGAN
4	SHELBURNE	36	PORT SEVERN
5	GRAVENHURST	37	MAPLE
12	KITCHENER	43	WOODSTOCK (DRUMBO)
22	BRAMPTON	45	LONDON
27	MORRISBURG (ROWENA)	74	OTTAWA
28	GRAND BEND	75	KEELE
30	SIMCOE	77	LIVERPOOL
31	DIXIE	90	SNELGROVE
32	PORT HOPE	91	KIRBY
34	BELFIELD		

PERMANENT COUNTING STATIONS ●

PCS: 002 - NIAGARA (HOMER)



1989 YEARLY REPORT: PCS 002 - NIAGARA (HOMER)

PCS NAME : NIAGARA (HOMER)
LOCATION : PRIMARY DESC. - 1.5 KM N OF MOUNTAIN RD IC
: SECONDARY DESC. - 1.1 KM S OF HWY 405
HIGHWAY : QEW
LHRS : 10046
OFFSET : 01.50
PATTERN TYPE : COMMUTER TOURIST RECREATION

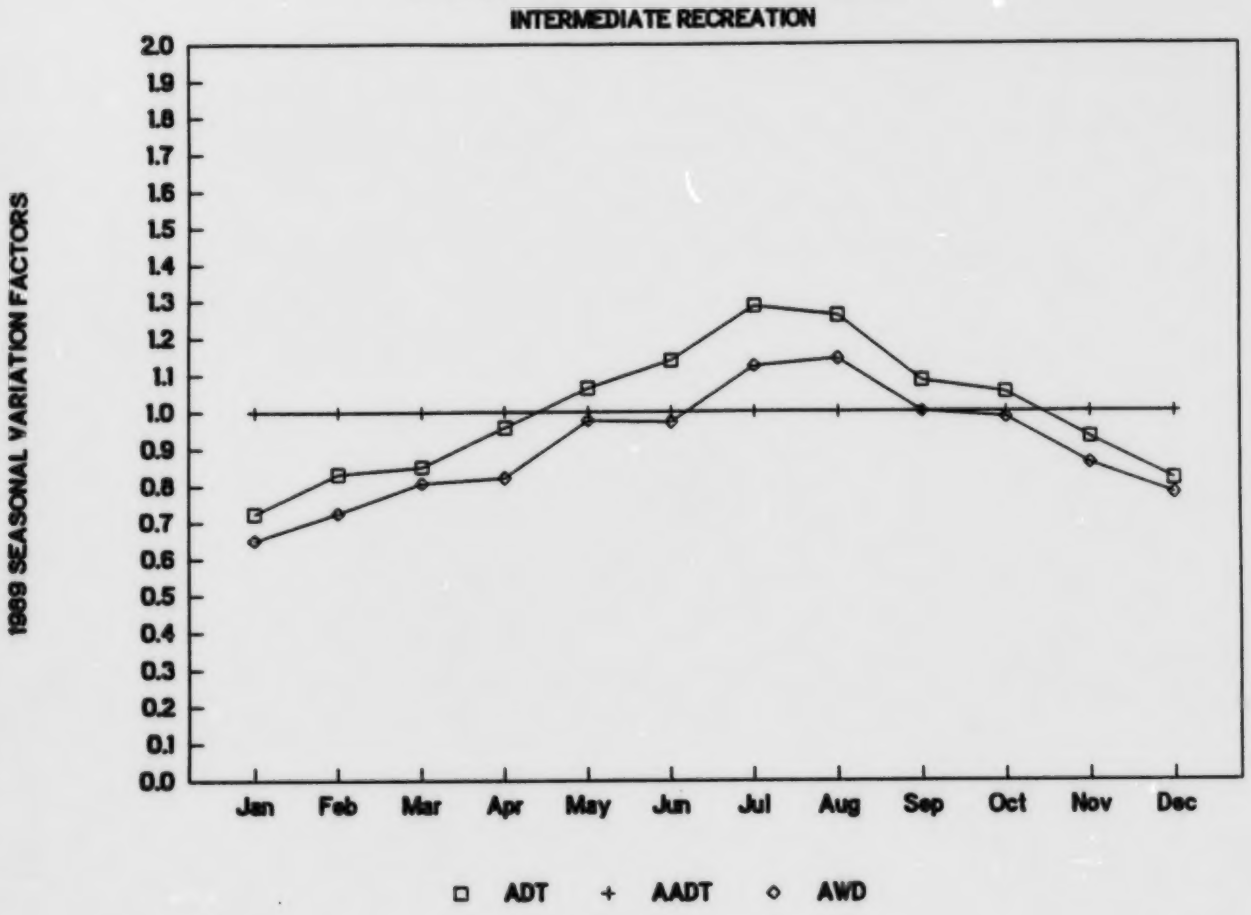
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	33428	0.796	FRI	27	39646	FRI	27	17	3127
FEB	33700	0.803	FRI	17	40105	WED	8	24	3855
MAR	39962	0.952	FRI	24	46095	FRI	24	16	3866
APR	40011	0.953	FRI	28	47557	FRI	28	17	3678
MAY	43095	1.027	SUN	21	52031	SUN	21	16	4038
JUN	45650	1.088	FRI	30	55764	FRI	23	17	4230
JUL	53796	1.282	SAT	1	63986	SUN	23	15	4526
AUG	52709	1.256	SUN	6	65513	SUN	6	14	4557
SEP	45139	1.075	FRI	1	58228	SAT	2	9	4058
OCT	40791	0.972	FRI	13	50273	SUN	8	11	3633
NOV	38324	0.913	FRI	24	44561	FRI	24	17	3603
DEC	36318	0.865	FRI	22	43829	THU	28	16	3395
AADT	41974		SUN	6	65513	SUN	6	14	4557

30TH HIGHEST HOUR (DHV) = 4097 9.8% OF AADT
SUN AUG 27 08:00-09:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	18991	0.0	36677	3034	2576	13.6
1975	23489	+23.7	40399	3323	2904	12.4
1980	28743	+22.4	52595	4202	3407	11.9
1981	28564	- 0.6	49480	3718	3306	11.6
1982	28480	- 0.3	47297	3563	3174	11.1
1983	29980	+ 5.3	48913	3537	3266	10.9
1984	31337	+ 4.5	49297	0	0	0.0
1985	34147	+ 9.0	54433	3820	3498	10.2
1986	35649	+ 4.4	58939	4425	3651	10.2
1987	38044	+ 6.7	60725	4283	3864	10.2
1988	39858	+ 4.3	64472	4484	3971	10.0
1989	41974	+ 5.3	65513	4557	4097	9.8

PCS: 004 - SHELBURNE



1989 YEARLY REPORT: PCS 004 - SHELBURNE

PCS NAME : SHELBURNE
LOCATION : 1.8 KM W OF E JCT HWY 89
HIGHWAY : 010
LHRS : 16520
OFFSET : 01.80
PATTERN TYPE : INTERMEDIATE RECREATION

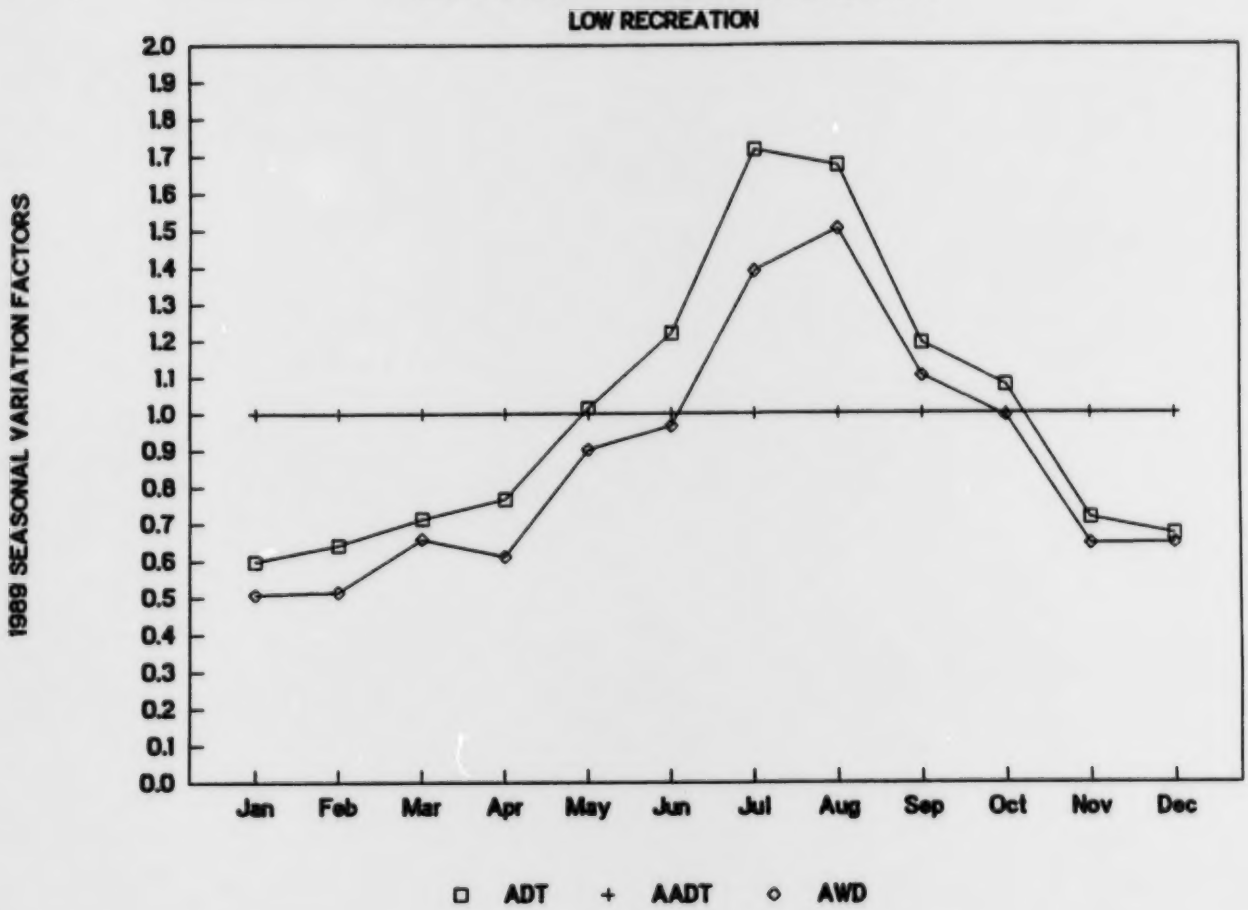
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	7230	0.725	FRI	27	9513	SUN	22	17	920
FEB	8300	0.832	FRI	17	10556	SUN	5	18	1163
MAR	8484	0.851	SUN	26	11434	FRI	24	12	1139
APR	9525	0.955	SUN	30	13382	SUN	30	18	1173
MAY	10633	1.066	MON	22	15838	MON	22	16	1667
JUN	11349	1.138	FRI	23	16301	FRI	23	20	1489
JUL	12808	1.284	SAT	29	16173	SAT	29	12	1610
AUG	12538	1.257	FRI	4	16941	SAT	5	12	1546
SEP	10845	1.087	MON	4	16110	MON	4	18	1561
OCT	10449	1.048	MON	9	15709	MON	9	15	1662
NOV	9271	0.929	FRI	3	11397	FRI	3	18	1005
DEC	8136	0.816	FRI	15	9691	TUE	26	17	982
AADT	9975		FRI	4	16941	MON	22	16	1667

30TH HIGHEST HOUR (DHV) = 1395 14.0% OF AADT
MON SEP 04 15:00-16:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1980	7748	0.0	15629	1426	1135	14.6
1981	7838	+ 1.2	16788	1489	1105	14.1
1982	7650	- 2.4	15122	1370	1122	14.7
1983	7851	+ 2.6	15162	1438	1146	14.6
1984	8075	+ 2.9	15402	0	0	0.0
1985	8011	- 0.8	14172	1468	1162	14.5
1986	8538	+ 6.6	14588	1441	1199	14.0
1987	9145	+ 7.1	15697	1516	1278	14.0
1988	9499	+ 3.9	16600	1591	1340	14.1
1989	9975	+ 5.0	16941	1667	1395	14.0

PCS: 005 - GRAVENHURST



1989 YEARLY REPORT: PCS 005 - GRAVENHURST

PCS NAME : GRAVENHURST
LOCATION : PRIMARY DESC. - 3.9 KM N OF SEVERN RIVER BRIDGE
: SECONDARY DESC. - 12.0 KM S OF N JCT HWY 169
HIGHWAY : 011
LHRS : 17025
OFFSET : 3.9
PATTERN TYPE : LOW RECREATION

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	9818	0.593	MON	2	15473	SUN	29	17	1821
FEB	10602	0.641	FRI	17	15895	SUN	26	16	1810
MAR	11759	0.711	SUN	26	19265	FRI	24	12	2232
APR	12640	0.764	SUN	23	23023	SUN	23	17	2293
MAY	16826	1.017	MON	22	40138	MON	22	16	3840
JUN	19759	1.194	FRI	30	39329	FRI	30	20	3404
JUL	28328	1.712	MON	3	48010	MON	3	15	4122
AUG	27276	1.648	MON	7	44940	MON	7	7	4200
SEP	20322	1.228	MON	4	40655	MON	4	9	3935
OCT	17666	1.067	MON	9	41310	MON	9	12	3767
NOV	11805	0.713	SUN	5	17574	SUN	5	16	1842
DEC	11163	0.675	TUE	26	17810	TUE	26	14	2145
AADT	16549		MON	3	48010	MON	7	7	4200

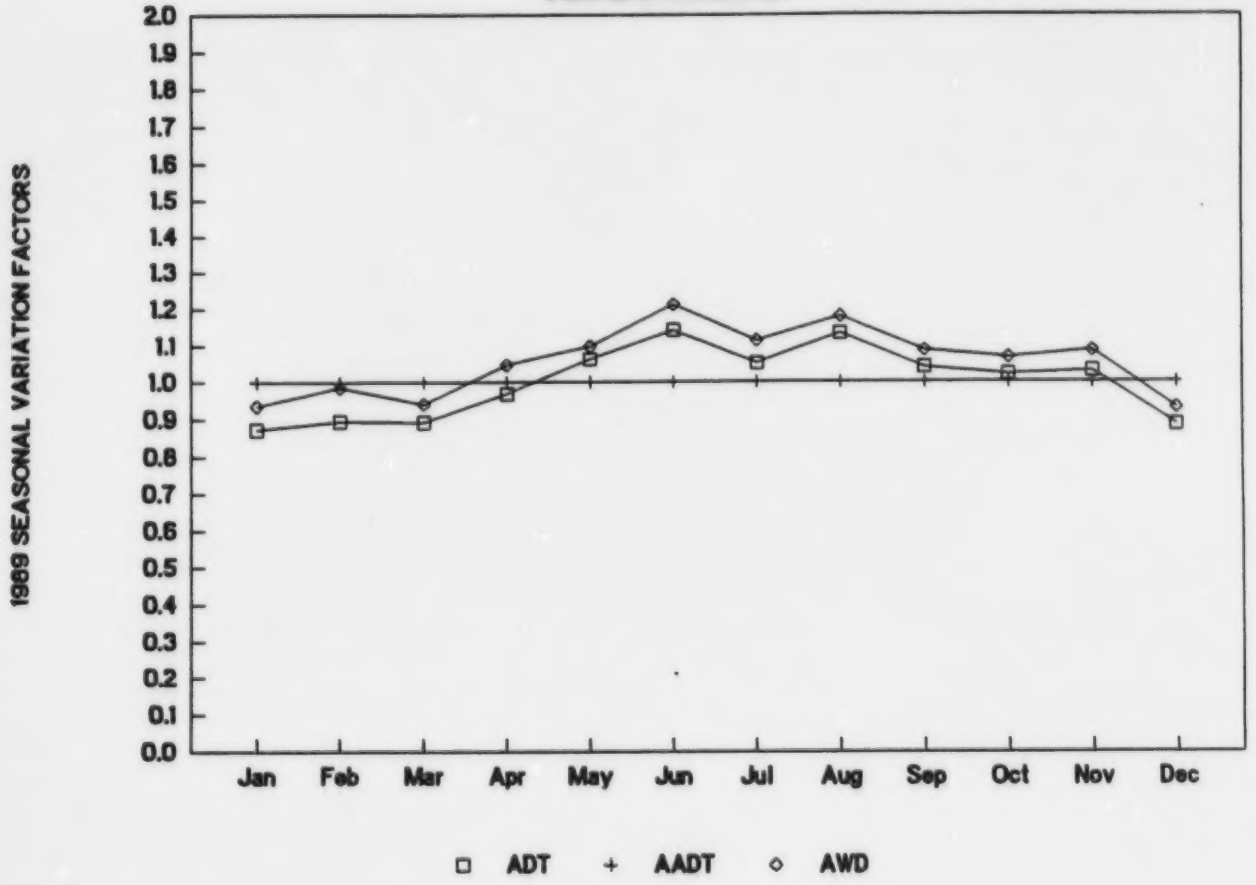
30TH HIGHEST HOUR (DHV) = 3563 21.5% OF AADT
MON OCT 09 13:00-14:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	8769	0.0	33456	2708	2109	24.1
1975	11262	+28.4	41666	3381	2714	24.1
1980	12276	+ 9.0	43279	3523	2904	23.7
1981	11647	- 5.1	36823	3637	2803	24.1
1982	11921	+ 2.4	42861	3587	2999	25.2
1983	12381	+ 3.9	42328	3650	2999	24.2
1984	12372	- 0.1	40355	0	0	0.0
1985	12445	+ 0.6	37992	3771	2915	23.4
1986	13534	+ 8.8	40255	3842	3184	23.5
1987	14731	+ 8.8	43159	4570	3307	22.4
1988	15734	+ 6.8	46269	4153	3491	22.2
1989	16549	+ 5.2	48010	4200	3563	21.5

PCS: 022 - BRAMPTON

SUBURBAN COMMUTER



1989 YEARLY REPORT: PCS 022 - BRAMPTON

PCS NAME : BRAMPTON
LOCATION : 0.5 KM W OF HWY 50
HIGHWAY : 007
LHRS : 14470
OFFSET : 00.50
PATTERN TYPE : SUBURBAN COMMUTER

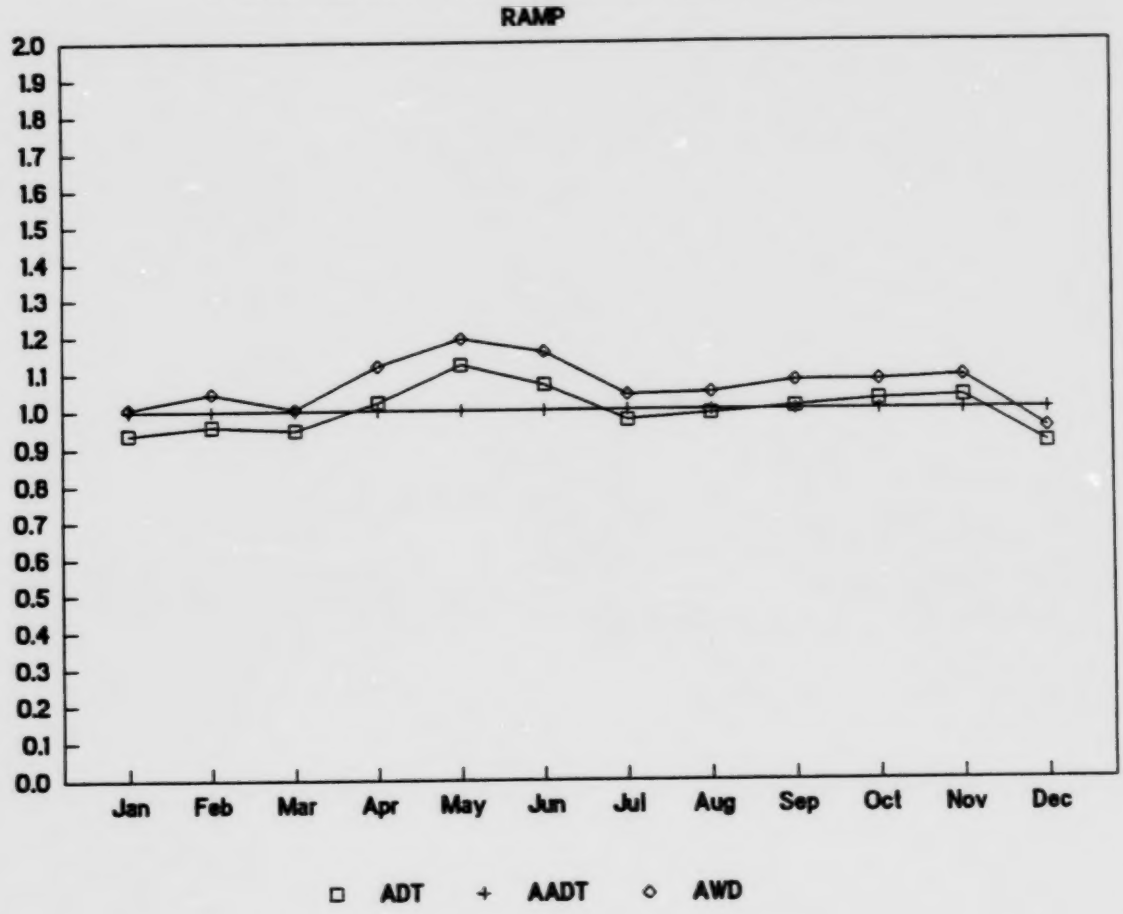
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	27670	0.867	FRI	27	33404	TUE	24	8	3380
FEB	28608	0.896	FRI	24	33771	MON	13	8	3517
MAR	28632	0.897	THU	23	35469	THU	23	8	3357
APR	30727	0.962	FRI	28	38652	TUE	25	8	3654
MAY	33876	1.061	FRI	26	40162	TUE	30	8	3784
JUN	36738	1.151	FRI	30	43938	WED	21	8	4022
JUL	33376	1.045	FRI	14	41166	WED	5	8	3758
AUG	36238	1.135	FRI	18	42967	THU	3	8	3815
SEP	33543	1.051	FRI	1	40919	TUE	26	8	3718
OCT	32272	1.011	FRI	6	40053	TUE	31	8	3726
NOV	32906	1.031	FRI	3	39391	WED	8	8	3865
DEC	28416	0.890	FRI	1	36632	FRI	22	8	3559
AADT	31927		FRI	30	43938	WED	21	8	4022

30TH HIGHEST HOUR (DHV) = 3764 11.8% OF AADT
THU JUN 29 07:00-08:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	9250	0.0	17802	1434	1221	13.2
1975	21791	+135.6	28142	3293	2894	13.3
1980	23658	+ 8.6	29420	3493	3029	12.8
1981	25372	+ 7.2	32461	3577	3172	12.5
1982	25307	- 0.3	31193	3401	3230	12.8
1983	27131	+ 7.2	33886	3637	3370	12.4
1984	27959	+ 3.1	39822	0	0	0.0
1985	28606	+ 2.3	41074	3885	3455	12.1
1986	28192	- 1.4	38779	3649	3343	11.9
1987	29312	+ 4.0	39215	3860	3435	11.7
1988	30573	+ 4.3	41716	3807	3606	11.8
1989	31927	+ 4.4	43938	4022	3764	11.8

PCS: 024 - KEELE EAST RAMP



1989 YEARLY REPORT: PCS 024 - KEELE EAST RAMP

PCS NAME : KEELE EAST RAMP
LOCATION : KEELE ST NB TO HWY 401 EB
HIGHWAY : 401
LHRS : 47654
OFFSET : 01.90
PATTERN TYPE : RAMP

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	4734	0.930	FRI	6	5663	TUE	3	8	549
FEB	4874	0.958	FRI	24	5667	THU	16	8	551
MAR	4859	0.955	FRI	31	5858	FRI	31	8	553
APR	5160	1.014	FRI	28	6350	FRI	7	17	596
MAY	5720	1.124	THU	18	6807	THU	11	17	674
JUN	5474	1.075	THU	29	6697	THU	29	19	672
JUL	4926	0.968	TUE	11	5931	THU	6	8	555
AUG	5042	0.991	THU	17	6005	WED	16	9	566
SEP	5177	1.017	FRI	15	6852	FRI	15	15	680
OCT	5181	1.018	FRI	13	6208	WED	4	8	609
NOV	5266	1.035	FRI	3	6258	THU	23	8	590
DEC	4664	0.916	FRI	1	6009	FRI	1	8	536
AADT	5090		FRI	15	6852	FRI	15	15	680

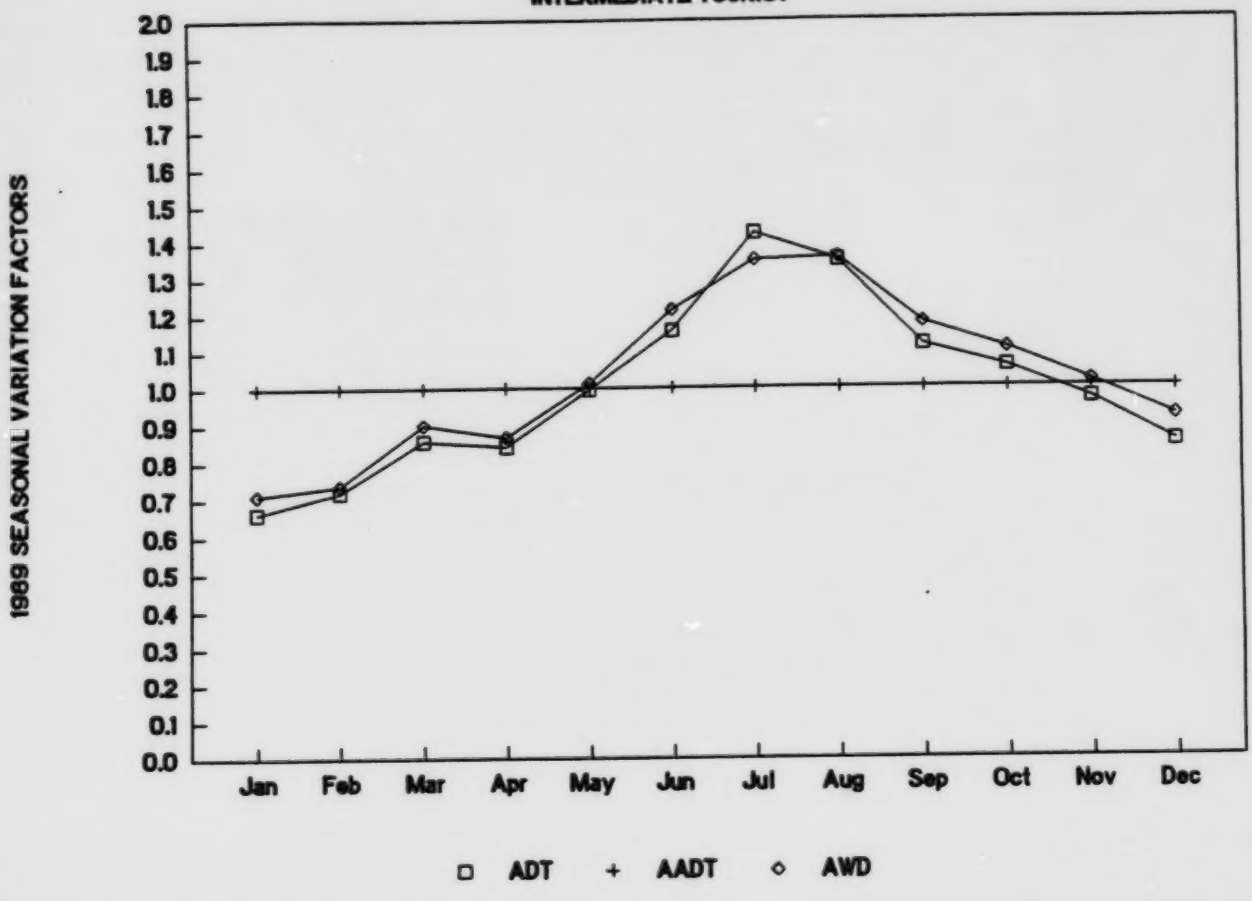
30TH HIGHEST HOUR (DHV) = 608 11.9% OF AADT
THU MAY 18 17:00-18:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1985	4786	0.0	6260	660	590	12.3
1986	4939	+ 3.2	7020	680	600	12.1
1987	4928	- 0.2	6923	750	600	12.2
1988	5105	+ 3.6	7096	758	628	12.3
1989	5090	- 0.3	6852	680	608	11.9

PCS: 027 - MORRISBURG (ROWENA)

INTERMEDIATE TOURIST



1989 YEARLY REPORT: PCS 027 - MORRISBURG (ROWENA)

PCS NAME : MORRISBURG (ROWENA)
LOCATION : 6.8 KM W OF HWY 31
HIGHWAY : 401
LHRS : 47300
OFFSET : 06.80
PATTERN TYPE : INTERMEDIATE TOURIST

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	9800	0.655	MON	2	17041	MON	2	16	1868
FEB	10709	0.716	FRI	24	14679	FRI	24	17	1152
MAR	12872	0.860	FRI	24	24736	FRI	24	12	2449
APR	12532	0.837	FRI	28	17175	SUN	23	17	1275
MAY	14853	0.993	FRI	19	26862	MON	22	17	2575
JUN	17102	1.143	FRI	30	28494	SUN	18	18	1862
JUL	21423	1.432	FRI	21	26885	MON	3	16	2272
AUG	20063	1.341	FRI	4	28104	MON	7	14	2454
SEP	16881	1.128	FRI	1	28556	MON	4	16	2515
OCT	15622	1.044	FRI	6	28079	MON	9	16	2742
NOV	14482	0.968	SAT	11	21612	MON	13	17	1687
DEC	12871	0.860	FRI	22	20464	TUE	26	15	1787
AADT	14965		FRI	1	28556	MON	9	16	2742

30TH HIGHEST HOUR (DHV) = 2055 13.7% OF AADT
MON MAY 22 13:00-14:00

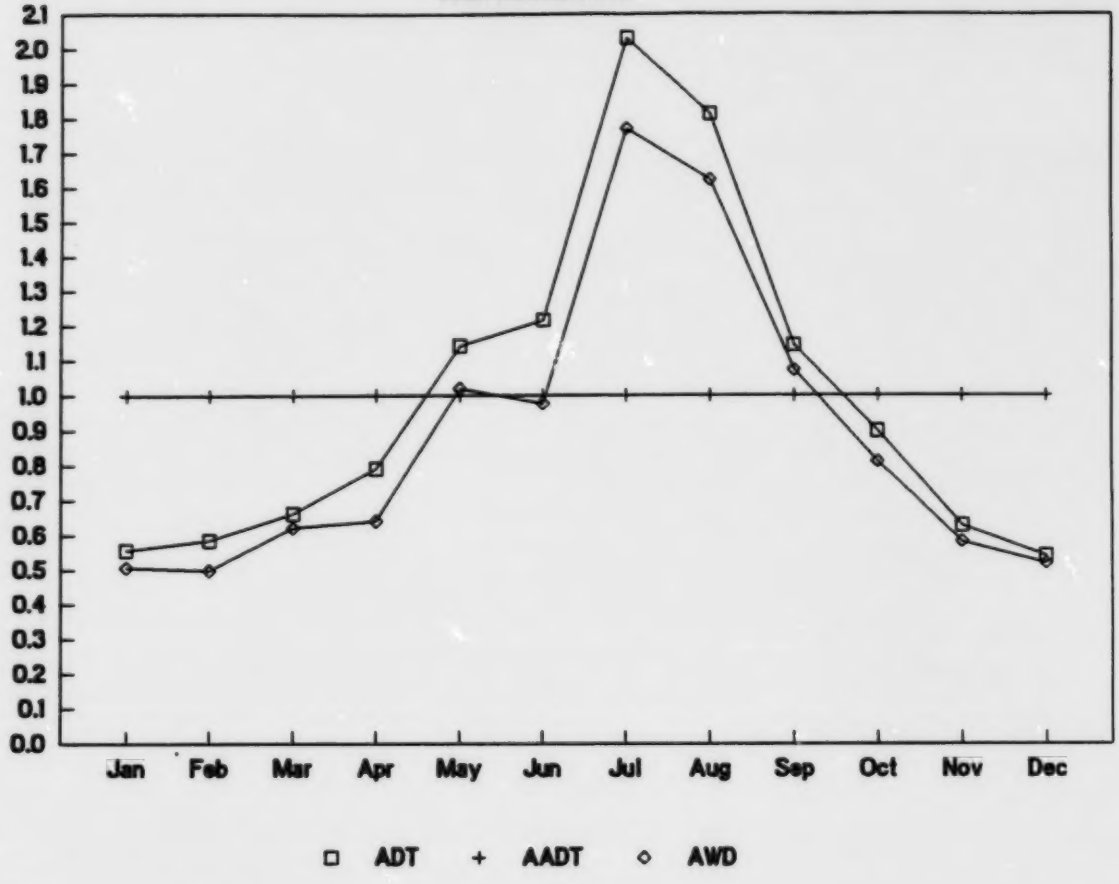
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	6563	0.0	18701	1695	1138	17.3
1975	8263	+25.9	20750	1964	1315	15.9
1980	8572	+ 3.7	20937	2075	1342	15.7
1981	8628	+ 0.7	21341	1898	1360	15.8
1982	8181	- 5.2	20329	1828	1368	16.7
1983	8575	+ 4.8	20789	2091	1370	16.0
1984	9110	+ 6.2	21764	0	0	0.0
1985	9687	+ 6.3	22144	2372	1547	16.0
1986	10204	+ 5.3	22303	2372	1589	15.6
1987	11038	+ 8.2	24064	2560	1681	15.2
1988	11180	+ 1.3	24518	2635	1714	15.3
1989	14965	+33.9	28556	2742	2055	13.7

PCS: 028 - GRAND BEND

HIGH RECREATION

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 028 - GRAND BEND

PCS NAME : GRAND BEND
LOCATION : PRIMARY DESC. - 5.2 KM N OF HWY 79
: SECONDARY DESC. - 1.7 KM S OF LAMBTON RD 5
HIGHWAY : 021
LHRS : 24030
OFFSET : 05.20
PATTERN TYPE : HIGH RECREATION

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	2538	0.554	SUN	29	3394	SUN	29	15	452
FEB	2671	0.583	SUN	12	3924	SUN	12	15	459
MAR	3024	0.661	SUN	26	5273	SUN	26	16	704
APR	3597	0.786	SUN	23	6275	SUN	30	17	716
MAY	5247	1.146	SUN	21	13893	SUN	21	16	1365
JUN	5462	1.193	SUN	11	9857	SUN	11	14	1011
JUL	9299	2.031	SUN	2	17166	SUN	2	14	1525
AUG	8245	1.801	SUN	6	15065	SUN	6	16	1558
SEP	5227	1.142	SUN	3	13213	SUN	3	15	1289
OCT	4103	0.896	SUN	1	7756	SUN	15	10	1065
NOV	2842	0.621	SUN	5	3927	SUN	12	15	483
DEC	2458	0.537	SUN	10	3043	SUN	10	17	311
AADT	4578		SUN	2	17166	SUN	6	16	1558

30TH HIGHEST HOUR (DHV) = 1219 26.6% OF AADT
MON SEP 04 15:00-16:00

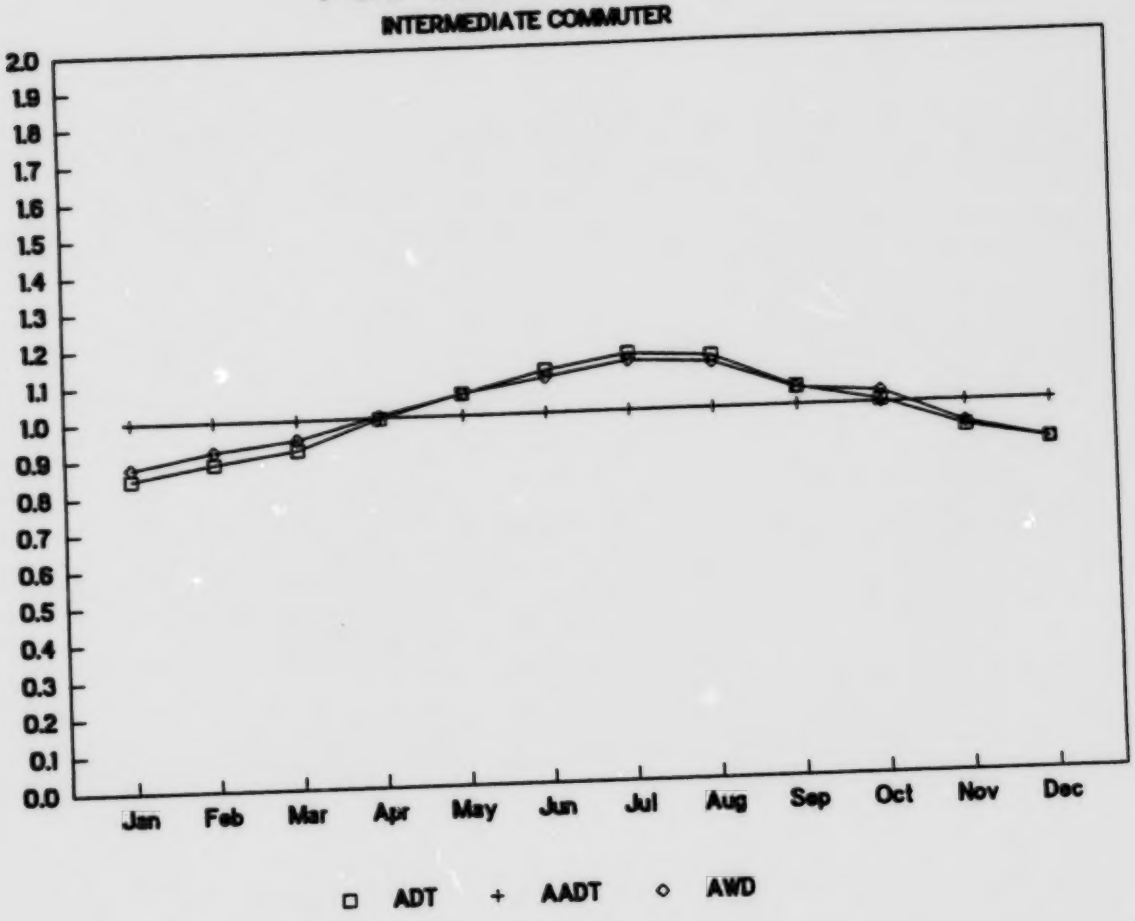
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1989	4578	0.0	17166	1558	1219	26.6

PCS: 030 - SIMCOE

INTERMEDIATE COMMUTER

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 030 - SIMCOE

PCS NAME : SIMCOE
LOCATION : PRIMARY DESC. - 8.0 KM W OF HALD/NORF RD 41
: SECONDARY DESC. - 7.9 KM E OF E JCT HWY 59
HIGHWAY : 003
LHRS : 11850
OFFSET : 08.00
PATTERN TYPE : INTERMEDIATE COMMUTER

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	5032	0.840	FRI	13	6247	FRI	13	17	586
FEB	5294	0.884	FRI	24	6378	FRI	24	17	579
MAR	5513	0.920	THU	23	6968	FRI	31	17	598
APR	5964	0.996	FRI	28	7227	FRI	14	17	605
MAY	6345	1.059	FRI	19	7851	FRI	5	18	604
JUN	6687	1.116	FRI	30	8182	FRI	30	18	663
JUL	6910	1.154	FRI	28	7696	FRI	28	18	613
AUG	6832	1.141	FRI	11	7744	SUN	6	20	688
SEP	6320	1.055	FRI	1	7739	FRI	1	17	656
OCT	5988	1.000	FRI	6	7856	FRI	6	17	671
NOV	5572	0.930	FRI	24	6517	FRI	3	17	551
DEC	5371	0.897	FRI	1	6868	FRI	1	17	608
AADT	5990		FRI	30	8182	SUN	6	20	688

30TH HIGHEST HOUR (DHV) = 599 10.0% OF AADT
SUN JUL 02 13:00-14:00

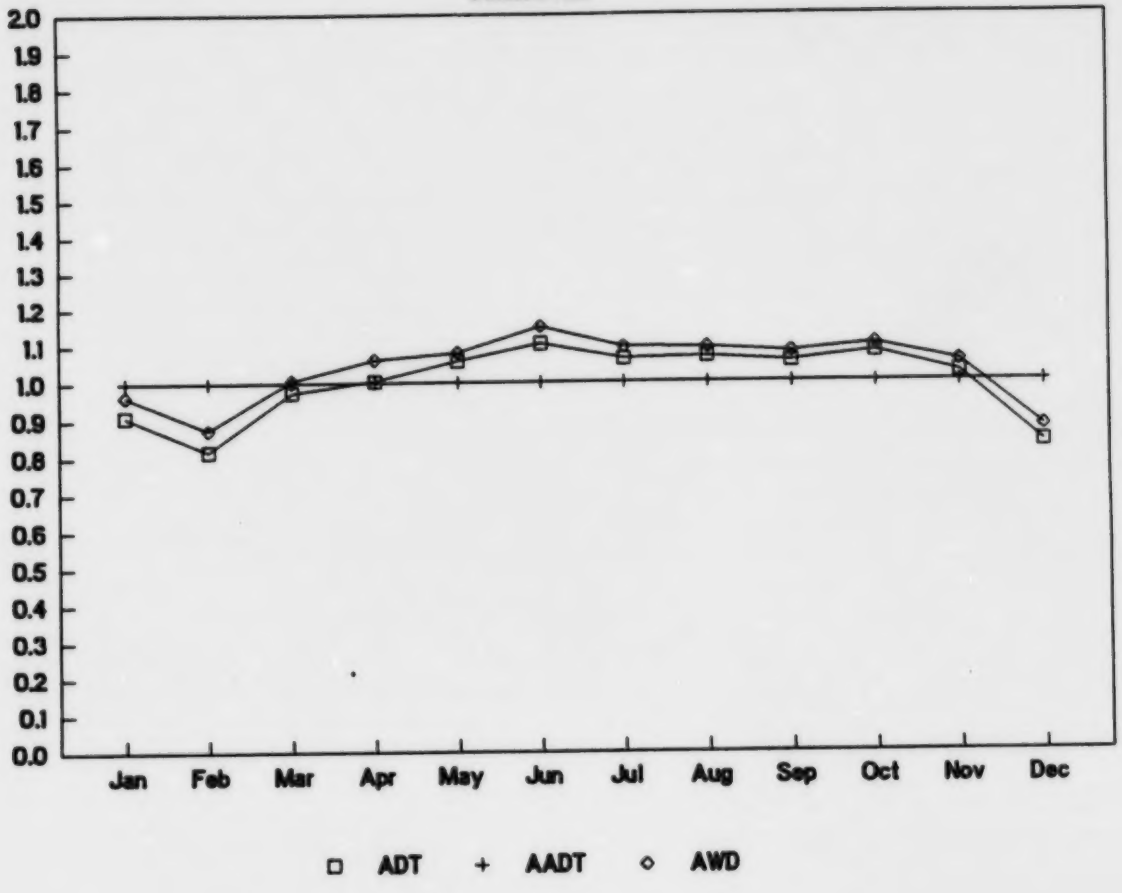
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	4407	0.0	7515	599	522	11.8
1975	5057	+14.7	8662	787	630	12.5
1980	5142	+ 1.7	7549	620	537	10.4
1981	5117	- 0.5	7533	734	541	10.6
1982	5076	- 0.8	7709	887	563	11.1
1983	5166	+ 1.8	7225	596	537	10.4
1984	5180	+ 0.3	7323	0	0	0.0
1985	5289	+ 2.1	8196	750	546	10.3
1986	5338	+ 0.9	7667	640	549	10.3
1987	5635	+ 5.6	7697	677	569	10.1
1988	5829	+ 3.4	8257	693	593	10.2
1989	5990	+ 2.8	8182	688	599	10.0

PCS: 031 - DIXIE

COMMUTER

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 031 - DIXIE

PCS NAME : DIXIE
LOCATION : 1.3 KM W OF HWY 10 U/P
HIGHWAY : 401
LHRS : 47680
OFFSET : 01.30
PATTERN TYPE : COMMUTER

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	91521	0.903	FRI	13	113499	FRI	13	18	9369
FEB	82442	0.814	FRI	17	98445	FRI	10	18	8219
MAR	98970	0.977	THU	23	118910	MON	13	8	9801
APR	101235	0.999	FRI	28	124016	FRI	28	18	9256
MAY	107018	1.056	FRI	19	126619	FRI	12	18	9458
JUN	111877	1.104	FRI	16	129937	FRI	16	18	9659
JUL	107599	1.062	FRI	14	129650	THU	13	18	9254
AUG	108446	1.071	FRI	4	123629	THU	31	9	9435
SEP	107419	1.060	FRI	8	128173	FRI	8	18	9560
OCT	108570	1.072	FRI	6	138174	FRI	6	17	10054
NOV	104089	1.028	FRI	3	120273	THU	9	18	9498
DEC	85222	0.841	FRI	1	105057	MON	18	18	8499
AADT	101301		FRI	6	138174	FRI	6	17	10054

30TH HIGHEST HOUR (DHV) = 9375 9.3% OF AADT
THU AUG 03 07:00-08:00

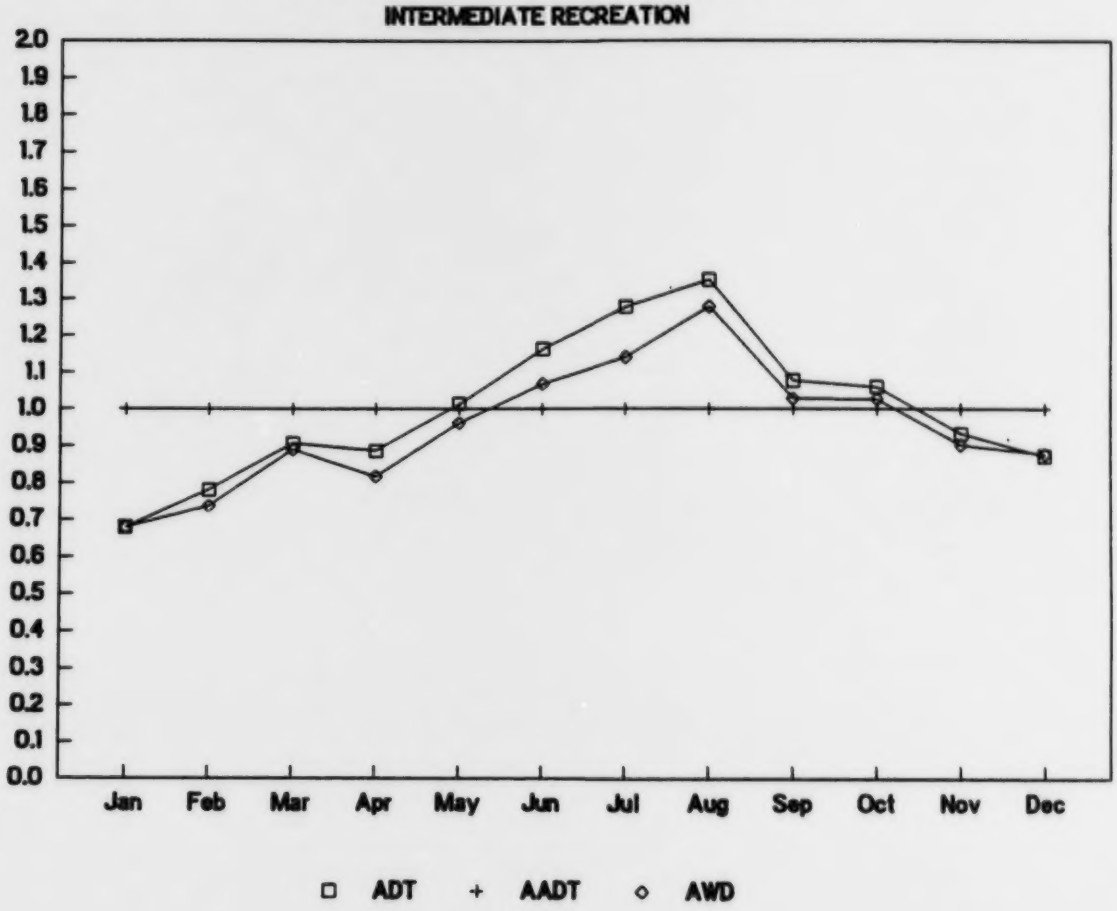
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1978	63175	0.0	0	0	0	0.0
1979	66379	+ 5.1	92948	7376	6924	10.4
1980	69023	+ 4.0	97282	7837	7217	10.5
1981	69855	+ 1.2	95058	7916	7326	10.5
1982	69490	- 0.5	91617	7938	7410	10.7
1983	69577	+ 0.1	0	0	0	0.0
1984	74989	+ 7.8	95896	0	0	0.0
1985	76149	+ 1.5	104758	8870	8517	11.2
1986	86070	+13.0	162000	12578	8627	10.0
1987	91225	+ 6.0	128876	9563	8785	9.6
1988	97090	+ 6.4	125486	9589	9076	9.3
1989	101301	+ 4.3	138174	10054	9375	9.3

PCS: 032 - PORT HOPE

INTERMEDIATE RECREATION

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 032 - PORT HOPE

PCS NAME : PORT HOPE
LOCATION : PRIMARY DESC. - 7.0 KM W OF WESLEYVILLE RD IC 456
: SECONDARY DESC.- 1.7 KM W OF NORTHUMBERLAND-DURHAM BDY RD
HIGHWAY : 401
LHRS : 47555
OFFSET : 07.00
PATTERN TYPE : INTERMEDIATE RECREATION

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	24815	0.673	MON	2	36347	MON	2	16	3597
FEB	28701	0.778	FRI	10	38212	SUN	26	17	3179
MAR	33457	0.907	THU	23	59149	FRI	24	12	5146
APR	32537	0.882	FRI	28	44701	SUN	30	17	3715
MAY	37311	1.011	FRI	19	64326	MON	22	14	5402
JUN	42341	1.148	FRI	30	66188	FRI	30	15	4612
JUL	47491	1.287	FRI	21	60216	SAT	29	12	4732
AUG	49666	1.346	FRI	4	69811	MON	7	17	5511
SEP	40013	1.085	MON	4	65282	MON	4	16	5988
OCT	38779	1.051	FRI	6	70014	MON	9	15	6671
NOV	34377	0.932	FRI	3	46472	SUN	5	18	3677
DEC	32417	0.879	TUE	26	52885	TUE	26	17	5289
AADT	36887		FRI	6	70014	MON	9	15	6671

30TH HIGHEST HOUR (DHV) = 4961 13.4% OF AADT
SAT AUG 05 10:00-11:00

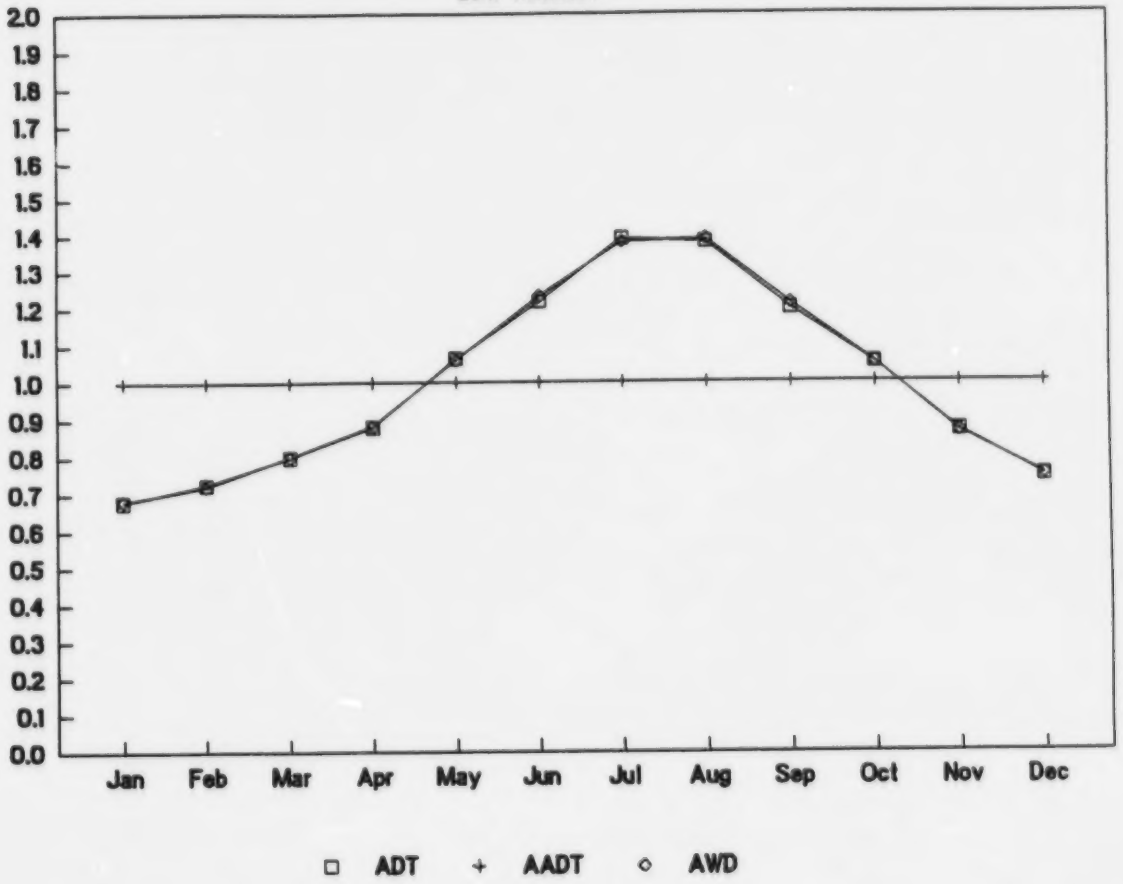
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	15453	0.0	43116	3570	2671	17.3
1975	19940	+29.0	48989	4397	3129	15.7
1980	22617	+13.4	54087	4997	3460	15.3
1981	22596	- 0.1	52087	4773	3417	15.1
1982	22600	0.0	56687	4761	3643	16.1
1983	23779	+ 5.2	57058	5143	3546	14.9
1984	25244	+ 6.2	63240	0	0	0.0
1985	26610	+ 5.4	57562	5561	4198	15.8
1986	28825	+ 8.3	60915	5571	4251	14.7
1987	33194	+15.2	67069	6077	4747	14.3
1988	34429	+ 3.7	69622	6048	4889	14.2
1989	36887	+ 7.1	70014	6671	4961	13.4

PCS: 033 - NIPIGON

LOW TOURIST

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 033 - NIPIGON

PCS NAME : NIPIGON
LOCATION : 4.7 KM S OF HWY 628
HIGHWAY : 011
LHRS : 17980
OFFSET : 04.70
PATTERN TYPE : LOW TOURIST

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	2263	0.676	FRI	27	2812	FRI	27	17	247
FEB	2421	0.723	FRI	24	2956	FRI	17	18	245
MAR	2669	0.797	FRI	31	3269	FRI	31	17	316
APR	2942	0.878	FRI	28	3759	FRI	28	17	311
MAY	3550	1.060	FRI	19	4373	FRI	19	19	419
JUN	4065	1.213	FRI	30	5664	FRI	30	17	459
JUL	4648	1.387	FRI	28	5126	SUN	30	16	396
AUG	4614	1.377	FRI	4	5424	FRI	18	17	441
SEP	4036	1.205	FRI	1	5366	FRI	1	19	398
OCT	3511	1.048	FRI	6	4876	FRI	6	17	379
NOV	2905	0.867	FRI	3	3539	FRI	3	17	305
DEC	2506	0.748	FRI	22	3280	FRI	22	16	262
AADT	3350		FRI	30	5664	FRI	30	17	459

30TH HIGHEST HOUR (DHV) = 379 11.3% OF AADT
SUN JUL 02 14:00-15:00

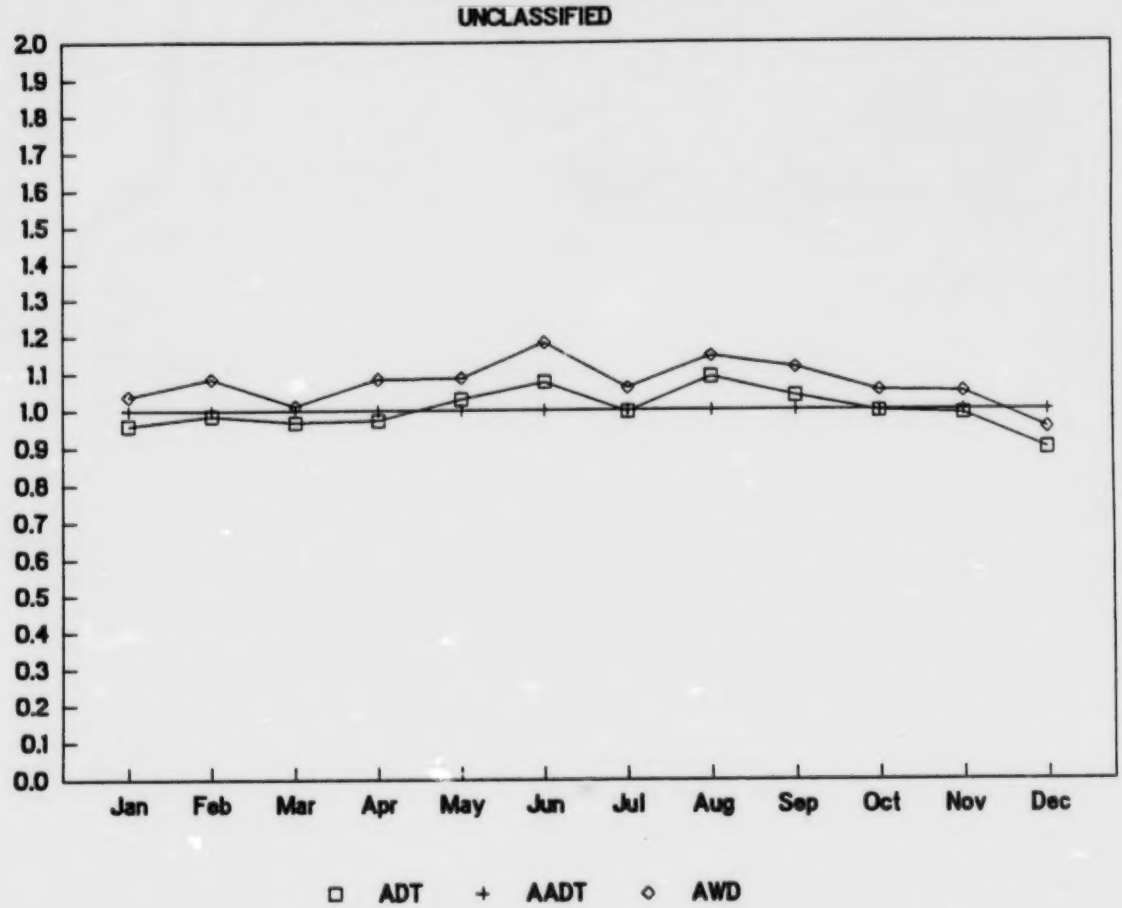
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	1952	0.0	4513	379	324	16.6
1975	2672	+36.9	5669	469	410	15.3
1980	3083	+15.4	6034	504	414	13.4
1981	3269	+ 6.0	6068	501	439	13.4
1982	2870	-12.2	5050	412	363	12.6
1983	2751	- 4.1	5050	365	326	11.9
1984	2966	+ 7.8	5505	0	0	0.0
1985	2839	- 4.3	5437	429	359	12.6
1986	2985	+ 5.1	5397	429	374	12.5
1987	3222	+ 7.9	5397	451	379	11.8
1988	3265	+ 1.3	5648	474	375	11.5
1989	3350	+ 2.6	5664	459	379	11.3

PCS: 034 - BELFIELD

UNCLASSIFIED

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 034 - BELFIELD

PCS NAME : BELFIELD
LOCATION : PRIMARY DESC. - 0.9 KM W OF HWY 427
: SECONDARY DESC. - 0.4 KM E OF AIRPORT RD
HIGHWAY : 409
LHRS : 49000
OFFSET : 00.90
PATTERN TYPE : UNCLASSIFIED

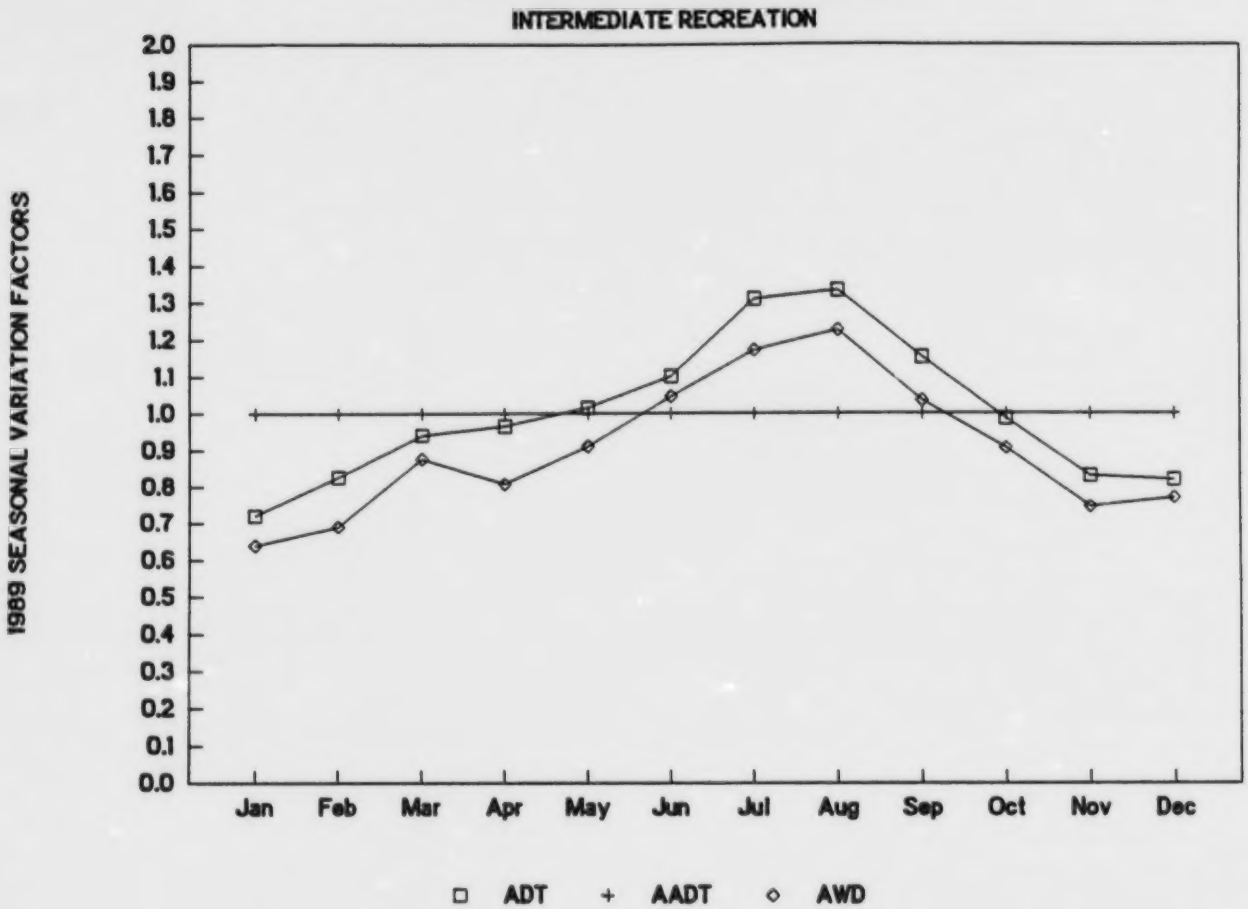
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	45531	0.954	THU	26	53941	FRI	27	17	4671
FEB	47132	0.987	THU	16	55662	FRI	10	17	4725
MAR	46388	0.972	FRI	10	57415	FRI	10	17	4801
APR	46163	0.967	FRI	28	57088	WED	19	17	5096
MAY	49152	1.030	FRI	26	60720	THU	25	18	4906
JUN	51595	1.081	FRI	30	63319	THU	15	18	4999
JUL	47341	0.992	FRI	21	57393	WED	12	17	4876
AUG	52054	1.091	THU	17	60971	THU	17	17	5104
SEP	49916	1.046	FRI	8	61364	FRI	8	17	5068
OCT	47290	0.991	FRI	6	59890	FRI	6	17	4940
NOV	47233	0.990	FRI	3	56175	THU	16	17	4817
DEC	43020	0.901	THU	14	55268	TUE	5	17	4886
AADT	47729		FRI	30	63319	THU	17	17	5104

30TH HIGHEST HOUR (DHV) = 4874 10.2% OF AADT
WED SEP 06 16:00-17:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1981	37072	0.0	0	0	0	0.0
1982	35458	- 4.4	45958	4473	3922	11.1
1983	35785	+ 0.9	47332	5972	3968	11.1
1984	40179	+12.3	58319	0	0	0.0
1985	40721	+ 1.3	54843	4938	4326	10.6
1986	39498	- 3.0	52241	4582	4148	10.5
1987	42923	+ 8.7	57545	4744	4490	10.5
1988	46359	+ 8.0	60853	4990	4733	10.2
1989	47729	+ 3.0	63319	5104	4874	10.2

PCS: 035 - DUNVEGAN



1989 YEARLY REPORT: PCS 035 - DUNVEGAN

PCS NAME : DUNVEGAN
LOCATION : PRIMARY DESC. - 10.2 KM W OF SD&G RD 31
: SECONDARY DESC. - 13.8 KM E OF HWY 138
HIGHWAY : 417
LHRS : 49280
OFFSET : 10.20
PATTERN TYPE : INTERMEDIATE RECREATION

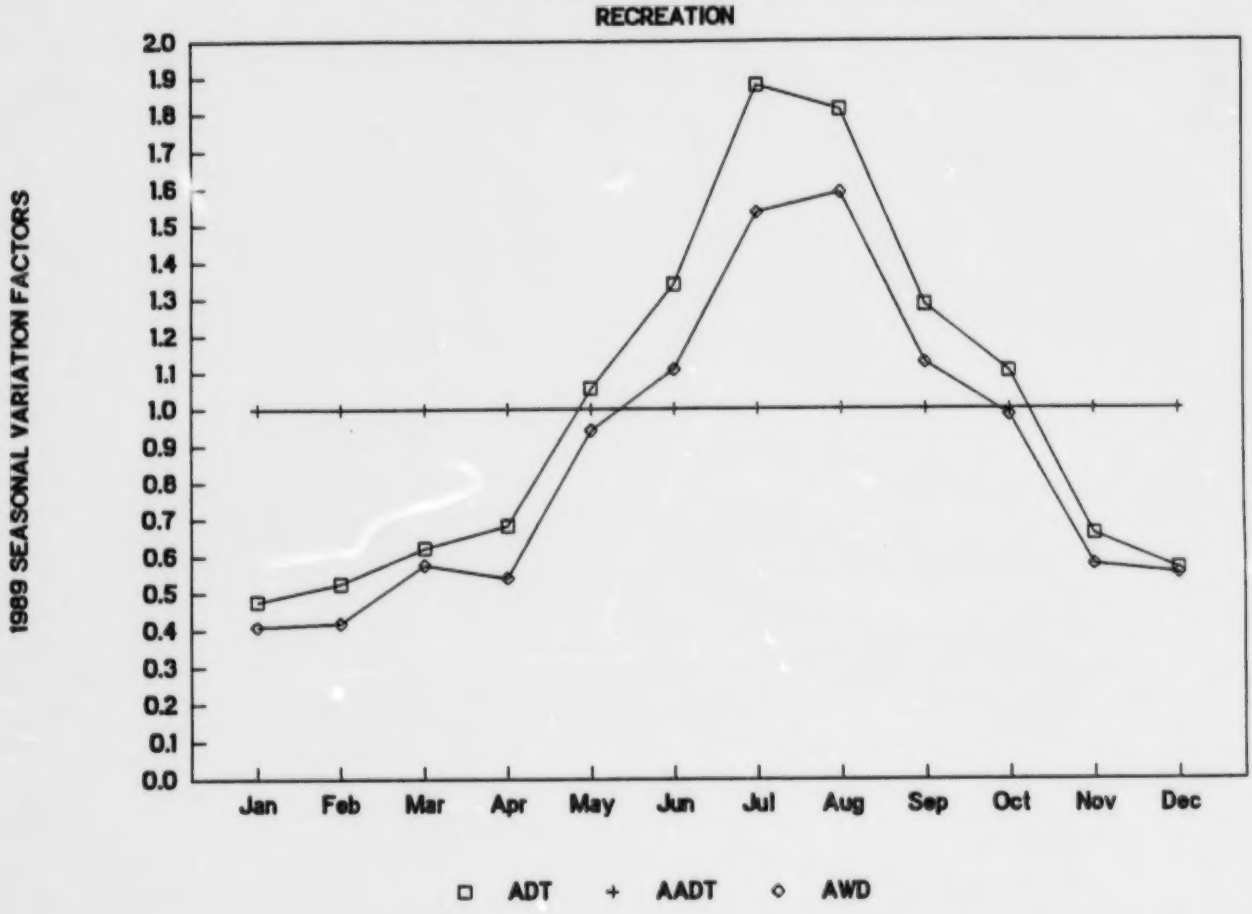
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	7234	0.717	FRI	27	9874	SUN	29	20	1066
FEB	8316	0.824	SUN	5	11136	SUN	12	17	1096
MAR	9528	0.944	SUN	26	16083	FRI	24	13	1447
APR	9703	0.961	SUN	30	14400	SUN	30	19	1282
MAY	10273	1.018	MON	22	15272	MON	22	21	1313
JUN	10989	1.089	FRI	30	17280	FRI	16	18	1409
JUL	13225	1.310	SUN	30	18557	SUN	23	20	1703
AUG	13432	1.331	SUN	6	18585	SAT	5	12	1599
SEP	11662	1.155	MON	4	18367	MON	4	18	1715
OCT	9882	0.979	MON	9	17482	MON	9	17	1828
NOV	8367	0.829	FRI	3	11970	SUN	19	20	1229
DEC	8273	0.820	MON	25	12101	MON	25	16	1357
AADT	10093		SUN	6	18585	MON	9	17	1828

30TH HIGHEST HOUR (DHV) = 1439 14.3% OF AADT
SAT SEP 02 12:00-13:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1980	6974	0.0	13279	1278	996	14.3
1981	7057	+ 1.2	13708	1340	1015	14.4
1982	6880	- 2.5	13708	1361	1049	15.2
1983	7220	+ 4.9	14659	1313	1073	14.9
1984	7646	+ 5.9	15063	0	0	0.0
1985	7990	+ 4.5	14656	1527	1149	14.4
1986	8305	+ 3.9	15734	1605	1203	14.5
1987	9333	+12.4	18255	1705	1322	14.2
1988	9640	+ 3.3	19462	1799	1389	14.4
1989	10093	+ 4.7	18585	1828	1439	14.3

PCS: 036 - PORT SEVERN



1989 YEARLY REPORT: PCS 036 - PORT SEVERN

PCS NAME : PORT SEVERN
LOCATION : PRIMARY DESC. - 1.8 KM N OF MUSKOKA RD 5
: SECONDARY DESC. - 4.7 KM S OF MUSKOKA RD 34
HIGHWAY : 069
LHRS : 35252
OFFSET : 01.80
PATTERN TYPE : RECREATION

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	3356	0.477	MON	2	5635	MON	2	15	824
FEB	3687	0.524	FRI	17	5694	SUN	19	17	620
MAR	4371	0.621	SUN	26	8616	FRI	24	12	1040
APR	4765	0.677	SUN	30	8525	SUN	30	16	871
MAY	7445	1.057	FRI	19	16294	MON	22	13	1452
JUN	9157	1.301	FRI	30	21008	FRI	30	20	1486
JUL	13375	1.900	MON	3	18886	MON	3	12	1669
AUG	12641	1.795	FRI	4	20811	MON	7	12	1749
SEP	9054	1.286	FRI	1	17885	MON	4	12	1643
OCT	7697	1.093	FRI	6	16306	MON	9	12	1591
NOV	4623	0.657	SUN	5	7771	SUN	5	17	827
DEC	3975	0.565	TUE	26	7135	TUE	26	15	883
AADT	7041		FRI	30	21008	MON	7	12	1749

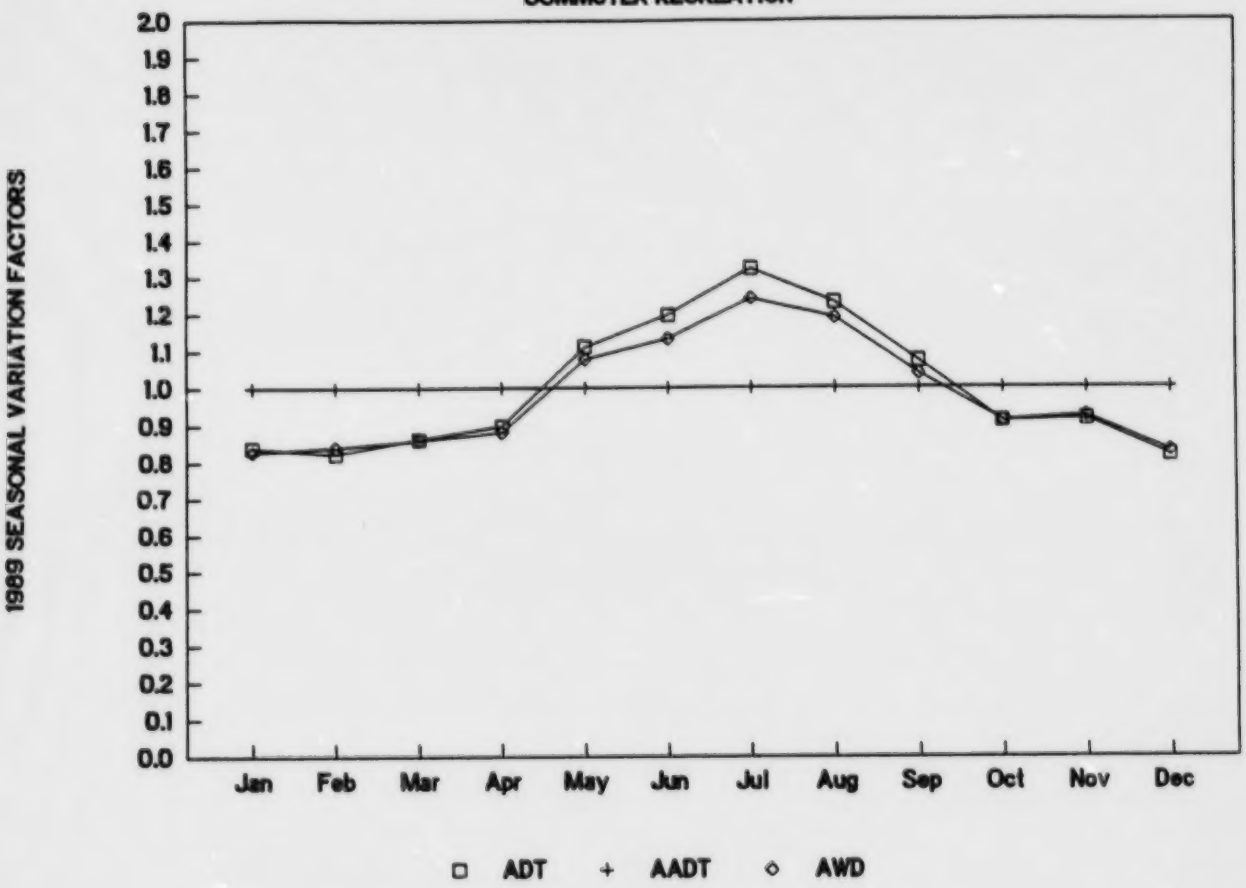
30TH HIGHEST HOUR (DHV) = 1463 20.8% OF AADT
SUN JUL 30 16:00-17:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	4209	0.0	16978	1445	1066	25.3
1975	4904	+16.5	20408	1454	1169	23.8
1980	5648	+15.2	22863	1787	1355	24.0
1981	5600	- 0.8	0	0	0	0.0
1982	5600	0.0	0	0	0	0.0
1983	5523	- 1.4	0	0	0	0.0
1984	5417	- 1.9	0	0	0	0.0
1985	5859	+ 8.2	19776	2219	1419	24.2
1986	6128	+ 4.6	20798	1726	1438	23.5
1987	6650	+ 8.5	20325	1749	1504	22.6
1988	6871	+ 3.3	20441	1692	1451	21.1
1989	7041	+ 2.5	21008	1749	1463	20.8

PCS: 037 - MAPLE

COMMUTER RECREATION



1989 YEARLY REPORT: PCS 037 - MAPLE

PCS NAME : MAPLE
LOCATION : 1.1 KM N OF HWY 7
HIGHWAY : 400
LHRS : 46820
OFFSET : 01.10
PATTERN TYPE : COMMUTER RECREATION

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	66799	0.831	FRI	27	83343	MON	23	8	7621
FEB	66116	0.823	FRI	17	78967	WED	22	8	7327
MAR	69436	0.864	FRI	17	83659	MON	6	8	7520
APR	71549	0.890	FRI	28	97290	FRI	28	18	8131
MAY	89619	1.115	FRI	19	118414	TUE	23	8	9349
JUN	95612	1.190	FRI	23	111696	MON	26	10	8518
JUL	106267	1.323	FRI	21	125204	FRI	14	17	9434
AUG	98740	1.229	FRI	4	126039	SAT	5	12	9201
SEP	86689	1.079	FRI	1	112413	MON	18	8	8745
OCT	72408	0.901	FRI	6	102158	FRI	6	17	8350
NOV	73651	0.917	FRI	24	87656	TUE	14	8	8287
DEC	66149	0.823	FRI	15	77347	FRI	22	8	7439
AADT	80351		FRI	4	126039	FRI	14	17	9434

30TH HIGHEST HOUR (DHV) = 8598 10.7% OF AADT
THU MAY 18 07:00-08:00

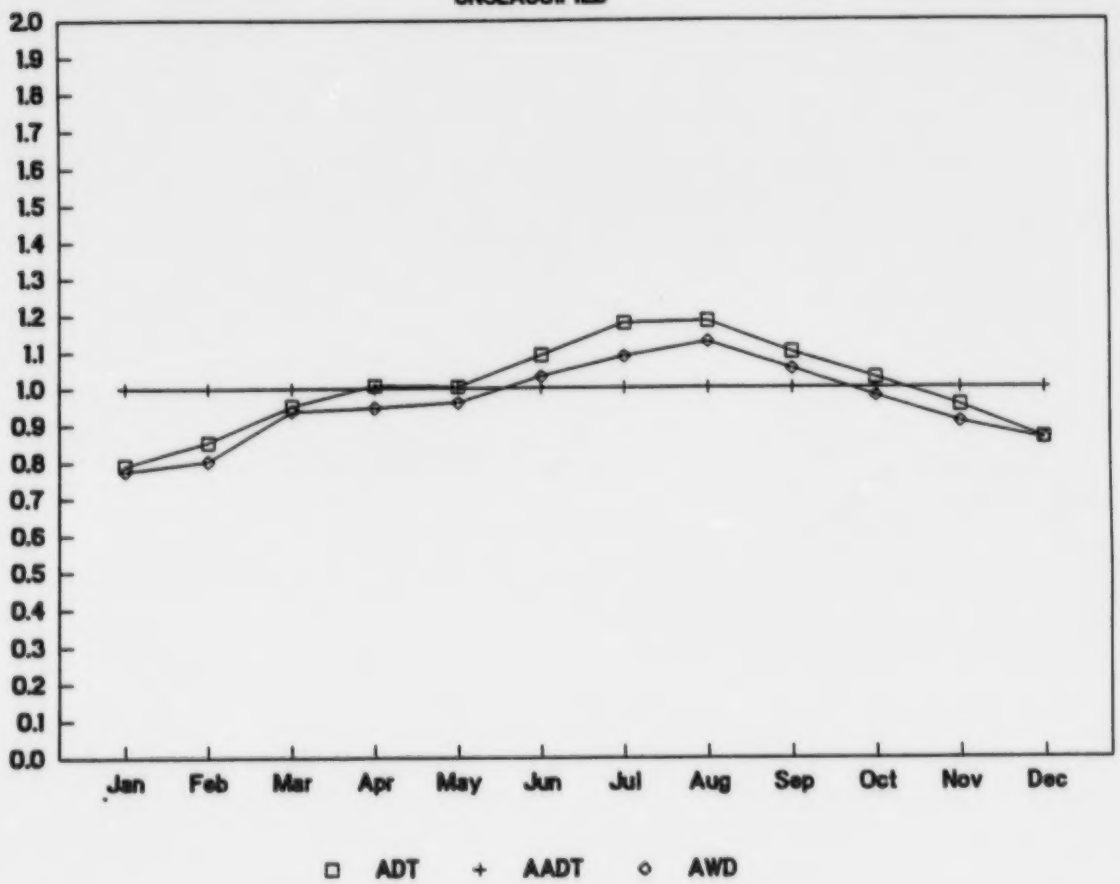
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	28479	0.0	59757	4035	3691	13.0
1975	39251	+37.8	80184	5301	5301	13.5
1980	46830	+19.3	89340	6687	6009	12.8
1981	47305	+ 1.0	87792	6761	5923	12.5
1982	46958	- 0.7	88774	7373	6228	13.3
1983	48181	+ 2.6	97080	7103	6353	13.2
1984	53016	+10.0	112404	0	0	0.0
1985	56562	+ 6.7	98250	7319	6750	11.9
1986	62415	+10.3	100598	7652	7054	11.3
1987	69956	+12.1	110632	8399	7585	10.8
1988	75677	+ 8.2	124223	9080	8093	10.7
1989	80351	+ 6.2	126039	9434	8598	10.7

PCS: 043 - WOODSTOCK (DRUMBO)

UNCLASSIFIED

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 043 - WOODSTOCK (DRUMBO)

PCS NAME : WOODSTOCK (DRUMBO)
LOCATION : PRIMARY DESC. - 1.0 KM W OF DRUMBO RD IC
: SECONDARY DESC. - 11.1 KM E OF HWY 2 (WOODSTOCK)
HIGHWAY : 401
LHRS : 47760
OFFSET : 01.00
PATTERN TYPE : UNCASSIFIED

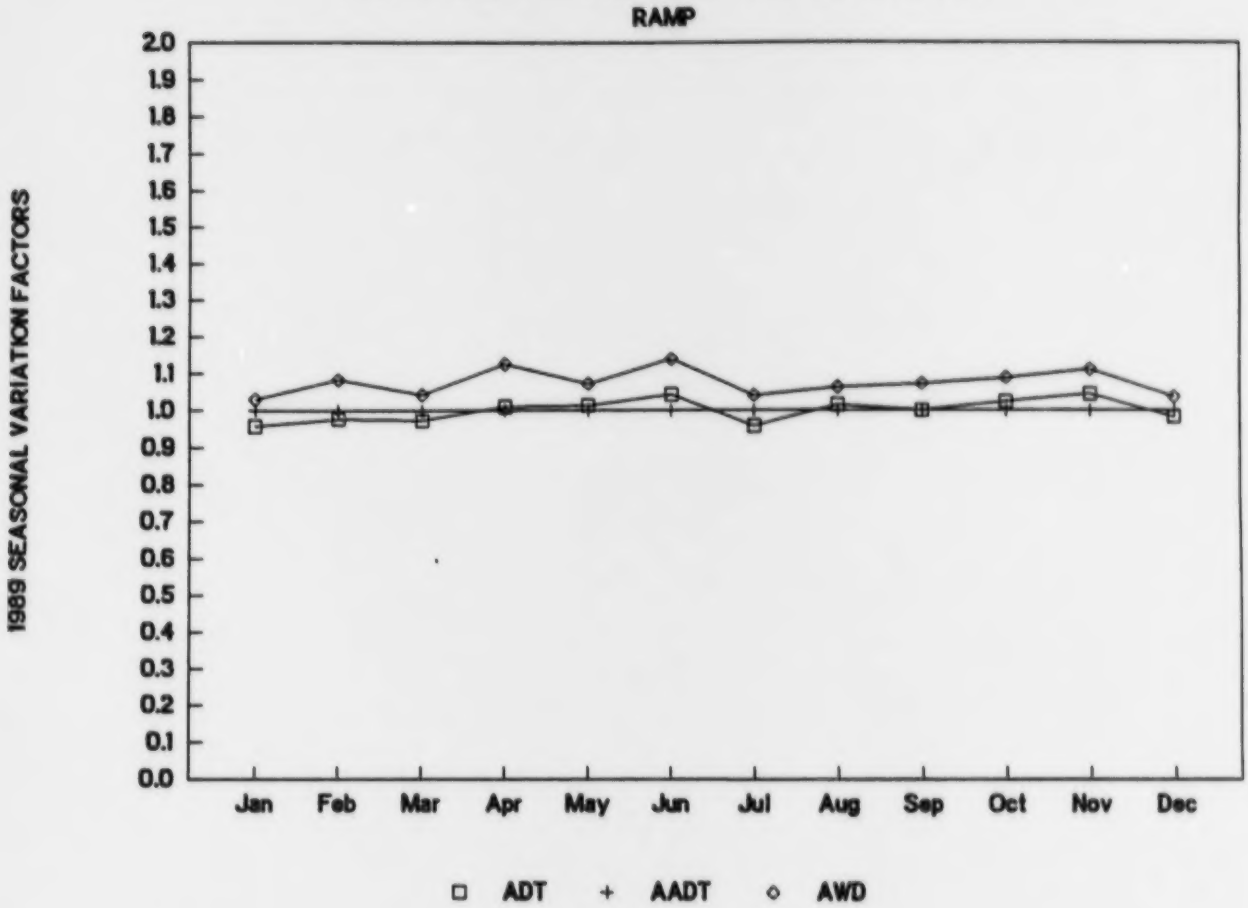
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	22683	0.789	FRI	27	29965	FRI	27	18	2472
FEB	24534	0.853	FRI	17	31360	FRI	24	18	2586
MAR	27400	0.953	SUN	26	40292	SUN	26	20	3502
APR	28942	1.006	FRI	28	36278	FRI	28	18	2993
MAY	28860	1.004	FRI	19	39111	FRI	5	18	2931
JUN	31375	1.091	FRI	30	44194	FRI	30	17	3171
JUL	33742	1.173	FRI	14	42384	FRI	7	16	3718
AUG	33927	1.180	FRI	4	46689	FRI	4	18	3669
SEP	31742	1.104	MON	4	44090	MON	4	17	3956
OCT	29330	1.020	FRI	6	44831	MON	9	17	3631
NOV	27383	0.952	FRI	10	35156	FRI	10	18	2956
DEC	24889	0.866	TUE	26	33933	TUE	26	14	3346
AADT	28756		FRI	4	46689	MON	4	17	3956

30TH HIGHEST HOUR (DHV) = 3254 11.3% OF AADT
SAT SEP 02 11:00-12:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1986	24213	0.0	41696	3611	2994	12.4
1987	26329	+ 8.7	43879	3712	3201	12.2
1988	27571	+ 4.7	45919	3822	3288	11.9
1989	28756	+ 4.3	46689	3956	3254	11.3

PCS: 044 - KEELE WEST RAMP



1989 YEARLY REPORT: PCS 044 - KEELE WEST RAMP

PCS NAME : KEELE WEST RAMP
LOCATION : HWY 401 WB TO KEELE ST
HIGHWAY : 401
LHRS : 47654
OFFSET : 01.90
PATTERN TYPE : RAMP

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	14097	0.952	FRI	27	17240	TUE	24	15	1533
FEB	14468	0.977	FRI	17	16776	WED	1	15	1483
MAR	14966	1.011	THU	13	33126	THU	2	15	1502
APR	14952	1.010	MON	3	18373	MON	24	22	1641
MAY	14978	1.012	TUE	9	17545	MON	8	18	1505
JUN	15541	1.050	WED	21	19840	SAT	10	14	1870
JUL	14109	0.953	WED	12	18217	WED	12	14	1534
AUG	15023	1.015	FRI	18	17809	TUE	22	18	1498
SEP	14919	1.008	FRI	15	17792	WED	6	9	1514
OCT	15064	1.018	FRI	27	17796	MON	23	18	1558
NOV	15465	1.045	FRI	17	17732	WED	15	9	1527
DEC	14566	0.984	FRI	15	17926	FRI	8	17	1491
AADT	14804		THU	13	33126	SAT	10	14	1870

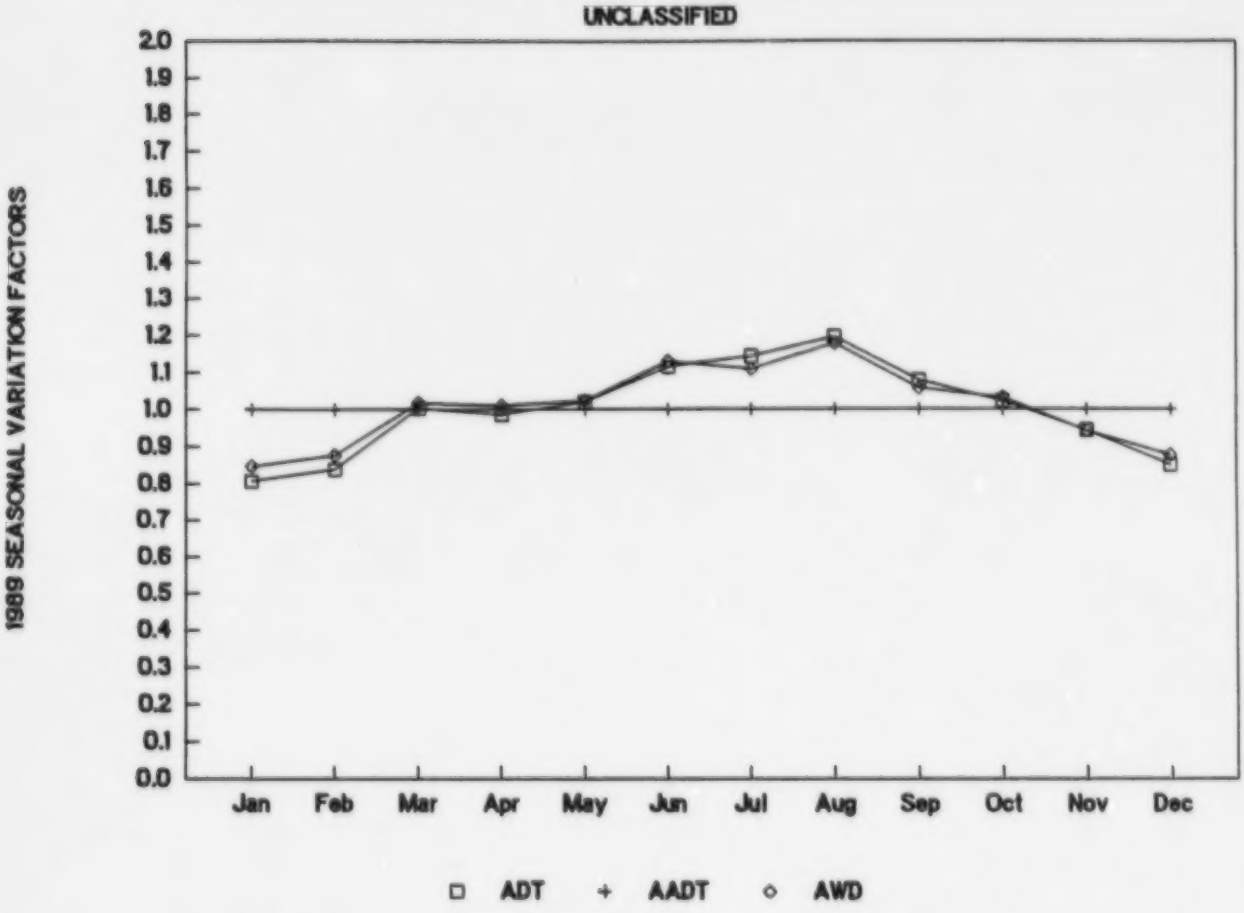
30TH HIGHEST HOUR (DHV) = 1472 9.9% OF AADT
WED MAR 15 17:00-18:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1985	14266	0.0	17260	1960	1440	10.1
1986	14271	0.0	17498	1960	1468	10.3
1987	14348	+ 0.5	17832	1979	1462	10.2
1988	14633	+ 2.0	18024	1590	1469	10.0
1989	14804	+ 1.2	33126	1870	1472	9.9

PCS: 045 - LONDON

UNCLASSIFIED



1989 YEARLY REPORT: PCS 045 - LONDON

PCS NAME : LONDON
LOCATION : PRIMARY DESC. - 0.7 KM W OF HWY 402
: SECONDARY DESC. - 0.1 KM E OF WHITE OAKS RD
HIGHWAY : 401
LHRS : 47826
OFFSET : 00.70
PATTERN TYPE : UNCLASSIFIED

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	14848	0.800	FRI	27	20045	MON	2	16	1700
FEB	15509	0.835	FRI	24	20495	FRI	17	16	1716
MAR	18659	1.005	THU	23	26206	THU	23	18	2205
APR	18238	0.982	FRI	28	23337	FRI	28	16	1969
MAY	18897	1.018	FRI	19	27083	FRI	19	16	2008
JUN	20608	1.110	FRI	30	28171	FRI	30	17	2080
JUL	21290	1.147	FRI	28	26687	FRI	21	16	2061
AUG	22105	1.191	FRI	4	30906	FRI	4	16	2542
SEP	20173	1.087	FRI	1	39277	FRI	1	16	3742
OCT	18807	1.013	FRI	6	28804	FRI	6	16	2299
NOV	17529	0.944	FRI	3	22695	FRI	3	16	1920
DEC	15877	0.855	WED	20	20233	TUE	26	15	1764
AADT	18564		FRI	1	39277	FRI	1	16	3742

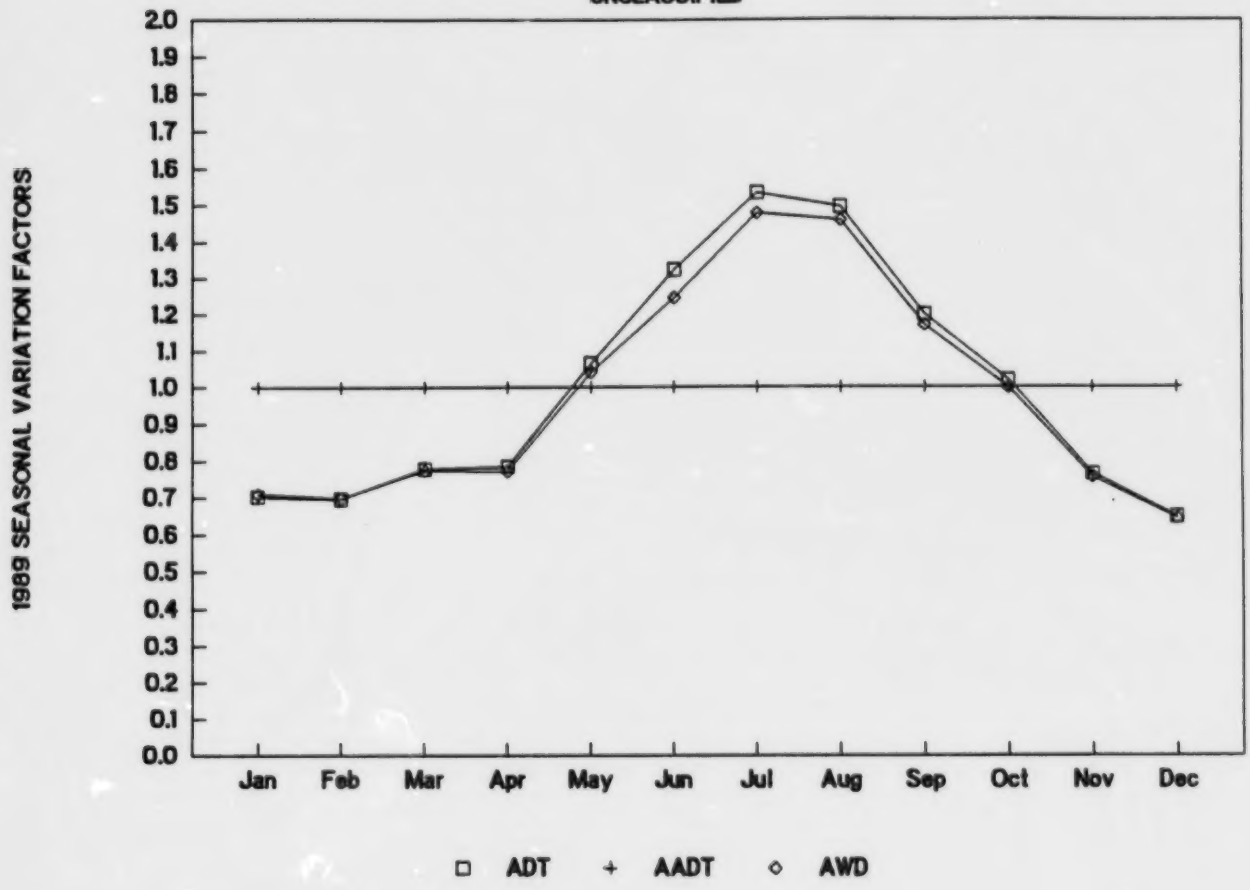
30TH HIGHEST HOUR (DHV) = 2318 12.5% OF AADT
THU SEP 21 17:00-18:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1987	17514	0.0	29336	2411	1890	10.8
1988	17945	+ 2.5	37053	3541	2207	12.3
1989	18564	+ 3.4	39277	3742	2318	12.5

PCS: 047 - THUNDER BAY (FINMARK)

UNCLASSIFIED



1989 YEARLY REPORT: PCS 047 - THUNDER BAY (FINMARK)

PCS NAME : THUNDER BAY (FINMARK)
LOCATION : PRIMARY DESC. - 1.9 KM W OF FINMARK RD
: SECONDARY DESC. - 9.4 KM E OF W JCT HWY 17
HIGHWAY : 011
LHRS : 18150
OFFSET : 01.90
PATTERN TYPE : UNCLASSIFIED

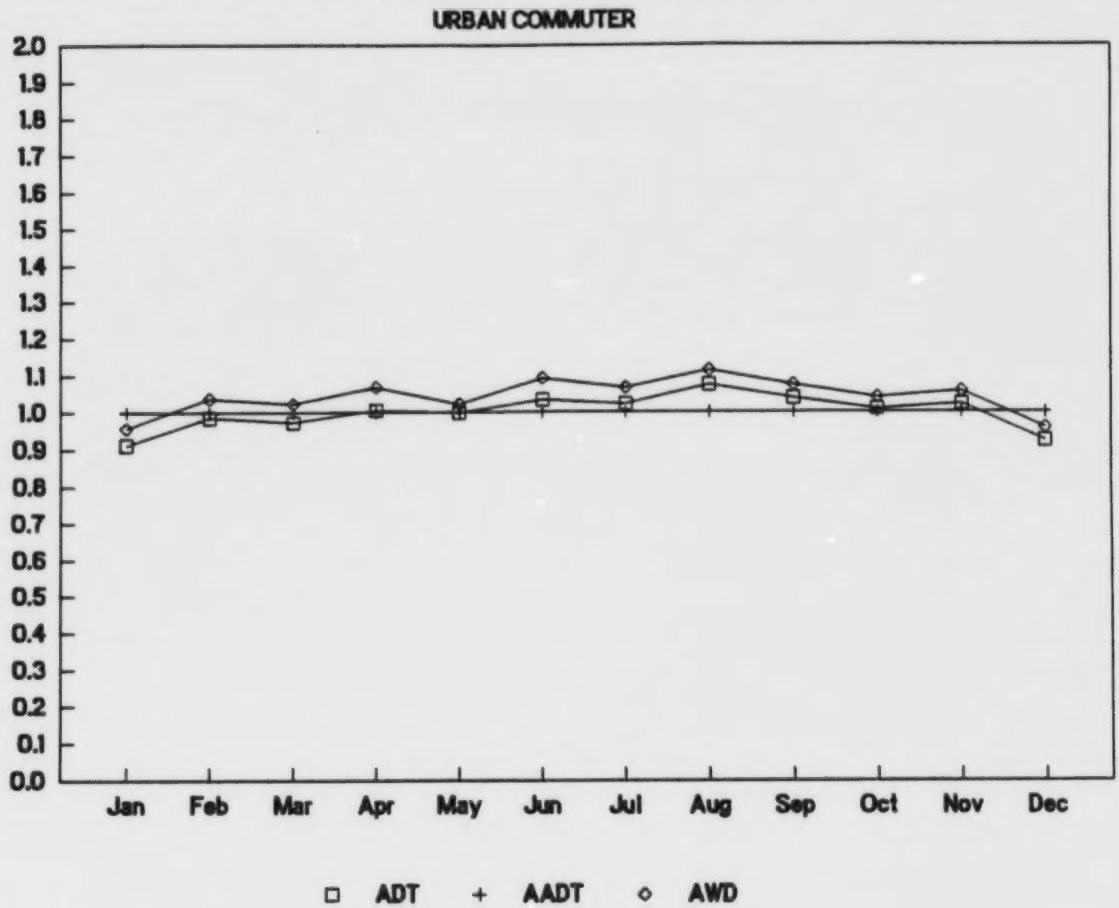
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	2275	0.697	FRI	27	2945	FRI	27	17	241
FEB	2267	0.694	FRI	10	2843	FRI	17	17	233
MAR	2535	0.776	FRI	17	3084	FRI	10	18	252
APR	2552	0.781	FRI	28	3319	FRI	28	17	305
MAY	3476	1.064	FRI	19	5825	FRI	19	16	614
JUN	4286	1.312	FRI	30	6235	FRI	30	19	555
JUL	5005	1.532	MON	3	6497	MON	3	18	539
AUG	4861	1.488	MON	7	6507	MON	7	20	596
SEP	3927	1.202	FRI	1	5951	FRI	1	19	549
OCT	3312	1.014	FRI	6	5430	FRI	6	17	490
NOV	2493	0.763	FRI	3	3198	FRI	3	16	272
DEC	2119	0.649	FRI	8	2844	FRI	1	17	250
AADT	3266		MON	7	6507	FRI	19	16	614

30TH HIGHEST HOUR (DHV) = 467 14.3% OF AADT
MON SEP 04 18:00-19:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1988	3087	0.0	6155	577	437	14.2
1989	3266	+ 5.8	6507	614	467	14.3

PCS: 074 - OTTAWA



1989 YEARLY REPORT: PCS 074 - OTTAWA

PCS NAME : OTTAWA
LOCATION : PRIMARY DESC. - 1.1 KM W OF WOODROFFE AVE IC
: SECONDARY DESC. - 1.0 KM E OF PINECREST/GREENBANK RD
HIGHWAY : 417
LHRS : 49500
OFFSET : 01.10
PATTERN TYPE : URBAN COMMUTER

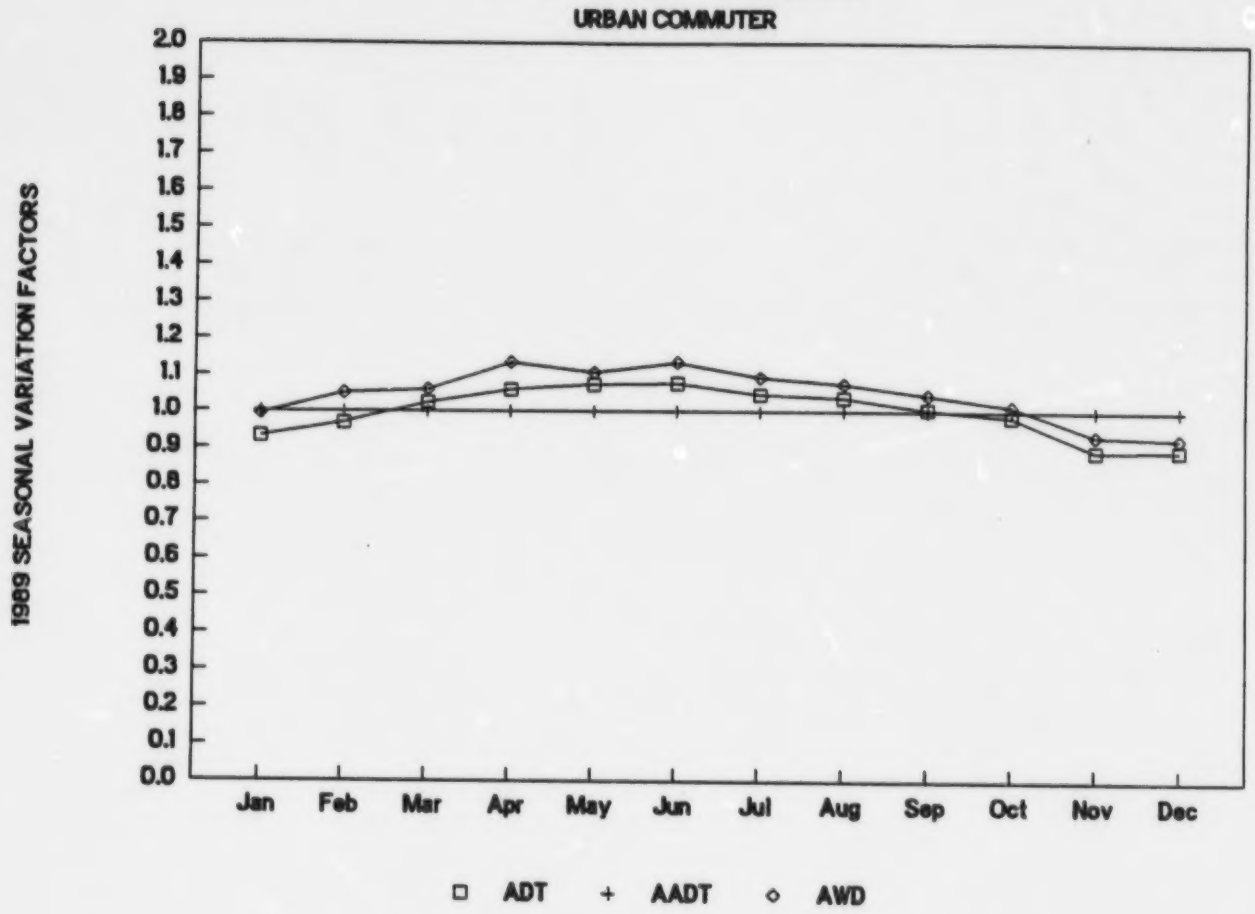
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	77480	0.909	FRI	13	89618	TUE	31	17	7548
FEB	84092	0.987	FRI	10	96126	FRI	10	17	7702
MAR	83111	0.975	FRI	3	96361	TUE	28	17	7804
APR	85488	1.003	FRI	28	101252	THU	6	17	7866
MAY	85146	0.999	FRI	19	98565	THU	4	17	7678
JUN	88495	1.039	FRI	30	103366	THU	1	17	7598
JUL	86799	1.019	FRI	14	102670	FRI	14	17	7708
AUG	91480	1.074	FRI	25	106072	THU	17	17	8008
SEP	89025	1.045	FRI	8	102327	TUE	5	17	7871
OCT	85544	1.004	FRI	6	102823	FRI	6	17	7921
NOV	87221	1.024	FRI	24	101167	MON	13	17	7787
DEC	78860	0.925	FRI	8	99237	FRI	8	17	7452
AADT	85212		FRI	25	106072	THU	17	17	8008

30TH HIGHEST HOUR (DHV) = 7706 9.0% OF AADT
THU SEP 21 16:00-17:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	32559	0.0	42161	5684	3890	11.9
1975	50597	+55.4	62698	5738	5394	10.7
1980	59996	+18.6	74860	6638	6236	10.4
1981	60844	+ 1.4	73703	6742	6178	10.2
1982	62676	+ 3.0	77690	6824	6512	10.4
1983	64466	+ 2.9	79656	7419	6465	10.0
1984	65921	+ 2.3	82709	0	0	0.0
1985	70558	+ 7.0	91752	7342	7020	9.9
1986	75211	+ 6.6	95896	7550	7271	9.7
1987	80228	+ 6.7	101331	8149	7368	9.2
1988	84400	+ 5.2	105505	8557	7713	9.1
1989	85212	+ 1.0	106072	8008	7706	9.0

PCS: 075 - KEELE



1989 YEARLY REPORT: PCS 075 - KEELE

PCS NAME : KEELE
LOCATION : PRIMARY DESC. - 1.7 KM W OF DUFFERIN ST IC - 364
: SECONDARY DESC. - 0.2 KM E OF KEELE ST IC - 362
HIGHWAY : 401
LHRS : 47654
OFFSET : 01.70
PATTERN TYPE : URBAN COMMUTER

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	297248	0.924	FRI	13	345813	WED	18	17	27070
FEB	311314	0.968	FRI	24	348872	TUE	28	17	27304
MAR	330871	1.029	FRI	31	382680	THU	9	8	29212
APR	339396	1.055	FRI	7	389165	TUE	18	8	28817
MAY	345178	1.073	FRI	26	393513	THU	4	8	28642
JUN	348236	1.083	FRI	16	391266	FRI	16	8	27640
JUL	335682	1.044	FRI	14	382885	TUE	4	8	26852
AUG	333595	1.037	THU	31	383568	THU	31	8	26248
SEP	325985	1.014	FRI	8	373382	FRI	8	8	26346
OCT	314947	0.979	FRI	6	371785	THU	26	8	27131
NOV	286601	0.891	THU	9	353662	THU	9	8	27648
DEC	289967	0.902	FRI	15	355902	TUE	19	17	25424
AADT	321631		FRI	26	393513	THU	9	8	29212

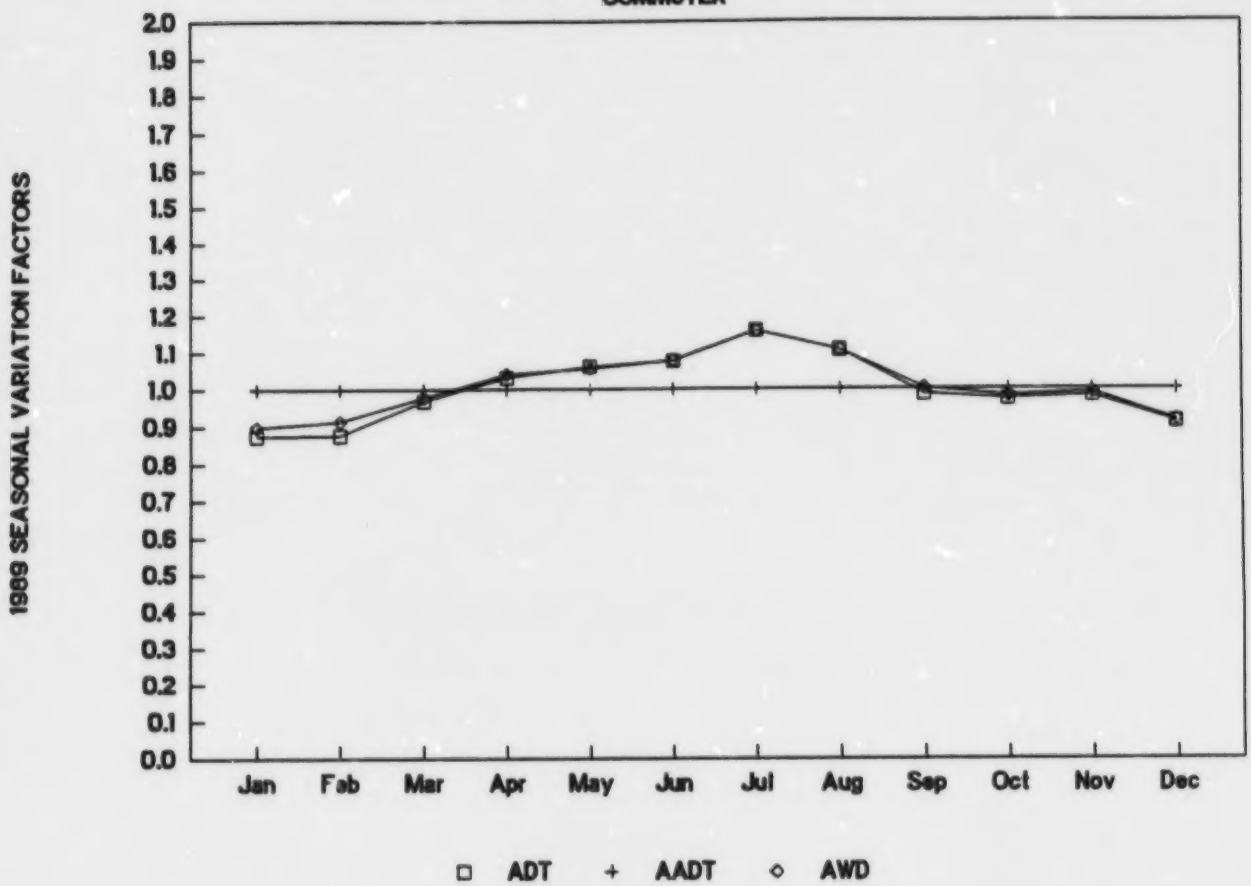
30TH HIGHEST HOUR (DHV) = 27960 8.7% OF AADT
TUE APR 11 07:00-08:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	155396	0.0	191960	17500	16440	10.6
1975	195018	+25.5	238960	20870	19830	10.2
1980	233782	+19.9	284310	23980	22880	9.8
1981	234907	+ 0.5	278960	23560	22340	9.5
1982	231694	- 1.4	280590	23290	22130	9.6
1983	232036	+ 0.1	280590	23290	22720	9.8
1984	241000	+ 3.9	0	0	0	0.0
1985	263208	+ 9.2	323480	25150	24012	9.1
1986	272407	+ 3.5	339726	25760	24716	9.1
1987	291501	+ 7.0	351607	25850	25284	8.7
1988	304042	+ 4.3	365971	27302	26208	8.6
1989	321631	+ 5.8	393513	29212	27960	8.7

PCS: 077 - LIVERPOOL

COMMUTER



1989 YEARLY REPORT: PCS 077 - LIVERPOOL

PCS NAME : LIVERPOOL
LOCATION : PRIMARY DESC. - 1.3 KM W OF LIVERPOOL RD IC - 397
: SECONDARY DESC. - 1.3 KM E OF WHITES RD IC - 394
HIGHWAY : 401
LHRS : 47610
OFFSET : 01.30
PATTERN TYPE : COMMUTER

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	112100	0.874	FRI	20	131680	FRI	13	17	10213
FEB	112258	0.875	FRI	3	126154	TUE	28	17	10257
MAR	124262	0.968	FRI	31	142223	THU	23	17	11219
APR	132010	1.029	FRI	28	156860	FRI	7	17	11093
MAY	135960	1.060	FRI	26	158270	FRI	5	17	11017
JUN	138630	1.080	FRI	23	165960	FRI	23	17	12342
JUL	147636	1.150	FRI	21	175619	FRI	21	17	12738
AUG	141832	1.105	FRI	4	177269	FRI	4	17	12348
SEP	127230	0.991	FRI	1	152942	FRI	8	17	10863
OCT	124024	0.966	FRI	6	158373	FRI	20	17	10889
NOV	126008	0.982	SAT	11	147015	SAT	11	17	11040
DEC	116724	0.910	FRI	15	138334	MON	11	17	10464
AADT	128324		FRI	4	177269	FRI	21	17	12738

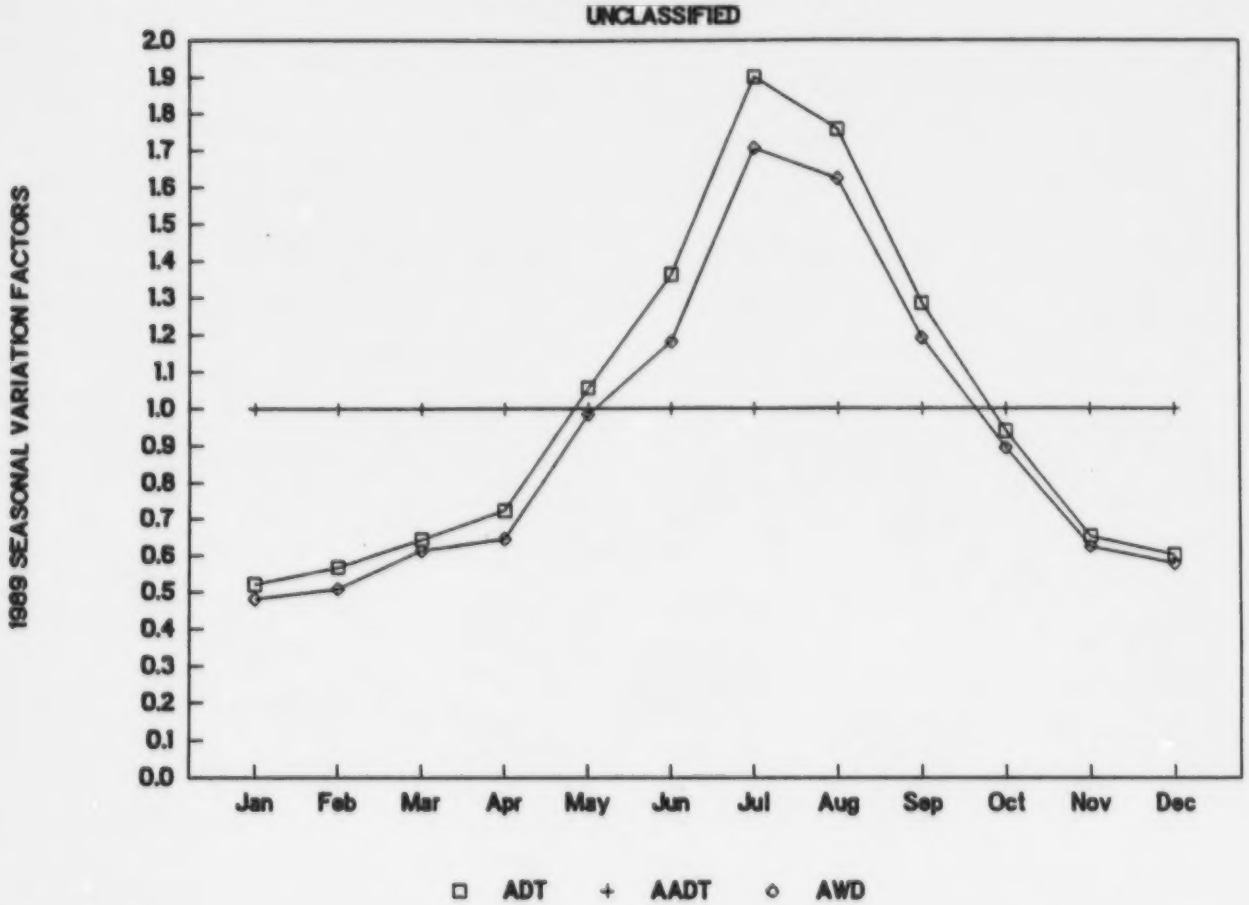
30TH HIGHEST HOUR (DHV) = 11720 9.1% OF AADT
FRI JUL 14 17:00-18:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1970	49313	0.0	90660	7107	5568	11.3
1975	66449	+34.7	99490	7935	6948	10.5
1980	84856	+27.7	120176	11082	8593	10.1
1981	87419	+ 3.0	122359	10977	8834	10.1
1982	88712	+ 1.5	125971	9568	9206	10.4
1983	91956	+ 3.7	126454	9935	9224	10.0
1984	92963	+ 1.1	128768	0	0	0.0
1985	95989	+ 3.3	135318	9791	9321	9.7
1986	108522	+13.1	148876	10965	10275	9.5
1987	117922	+ 8.7	168207	11795	10871	9.2
1987	122051	+ 3.5	169261	12205	11178	9.2
1989	128324	+ 5.1	177269	12738	11720	9.1

PCS: 086 - KENORA

UNCLASSIFIED



1989 YEARLY REPORT: PCS 086 - KENORA

PCS NAME : KENORA
LOCATION : PRIMARY DESC. - 6.3 KM W OF LINDSAY RD - BOYS TWP
: SECONDARY DESC. - 23.1 KM E OF MANITOBA/ONT BORDER
HIGHWAY : 017
LHRS : 22220
OFFSET : 06.30
PATTERN TYPE : UNCLASSIFIED

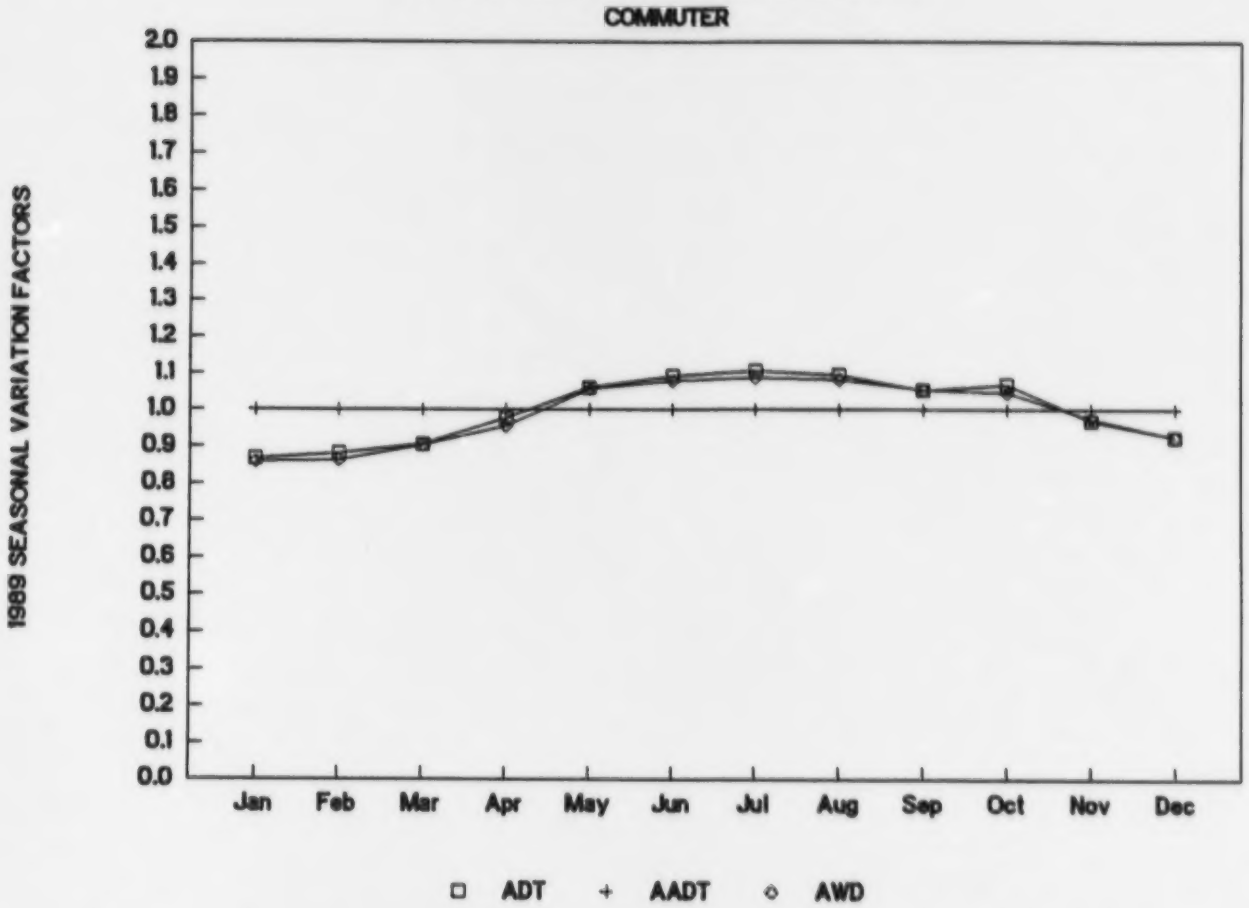
	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	1673	0.521	FRI	27	2297	SUN	29	17	220
FEB	1812	0.564	FRI	24	2299	SUN	26	17	218
MAR	2066	0.643	FRI	24	2870	FRI	24	13	290
APR	2317	0.721	FRI	28	3145	SUN	30	17	281
MAY	3399	1.058	MON	22	8001	MON	22	18	982
JUN	4314	1.343	FRI	30	8819	FRI	30	21	795
JUL	6107	1.901	MON	3	8733	MON	3	18	799
AUG	5603	1.744	MON	7	9166	MON	7	17	874
SEP	4127	1.284	MON	4	8359	MON	4	17	894
OCT	2998	0.933	MON	9	5000	MON	9	15	544
NOV	2079	0.647	FRI	10	2725	SUN	12	16	238
DEC	1922	0.598	FRI	8	2433	TUE	26	16	216
AADT	3213		MON	7	9166	MON	22	18	982

30TH HIGHEST HOUR (DHV) = 693 21.6% OF AADT
MON MAY 22 19:00-20:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1988	3078	0.0	9226	942	726	23.6
1989	3213	+ 4.4	9166	982	693	21.6

PCS: 090 - SNELGROVE



1989 YEARLY REPORT: PCS 090 - SNELGROVE

PCS NAME : SNELGROVE
LOCATION : PRIMARY DESC. - 10.3 KM N OF HWY 7
: SECONDARY DESC. - 0.2 KM S OF PEEL RD 9 - VICTORIA
HIGHWAY : 010
LHRS : 16450
OFFSET : 10.30
PATTERN TYPE : COMMUTER

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	11185	0.864	FRI	27	12963	SUN	29	15	1227
FEB	11402	0.881	FRI	17	12900	SUN	19	17	1230
MAR	11760	0.908	SUN	12	13427	SUN	12	17	1277
APR	12585	0.972	FRI	28	14828	SUN	16	16	1348
MAY	13706	1.059	FRI	19	16756	FRI	19	19	1381
JUN	14124	1.091	FRI	30	17208	FRI	30	18	1320
JUL	14311	1.105	SUN	2	16504	SAT	1	11	1244
AUG	14184	1.095	FRI	4	15844	SUN	27	16	1257
SEP	13692	1.057	FRI	1	15788	FRI	15	18	1308
OCT	13737	1.061	SUN	1	15924	MON	9	15	1632
NOV	12562	0.970	FRI	24	14259	FRI	10	18	1272
DEC	12017	0.928	FRI	1	13891	FRI	8	18	1280
AADT	12948		FRI	30	17208	MON	9	15	1632

30TH HIGHEST HOUR (DHV) = 1281 9.9% OF AADT
SUN APR 23 16:00-17:00

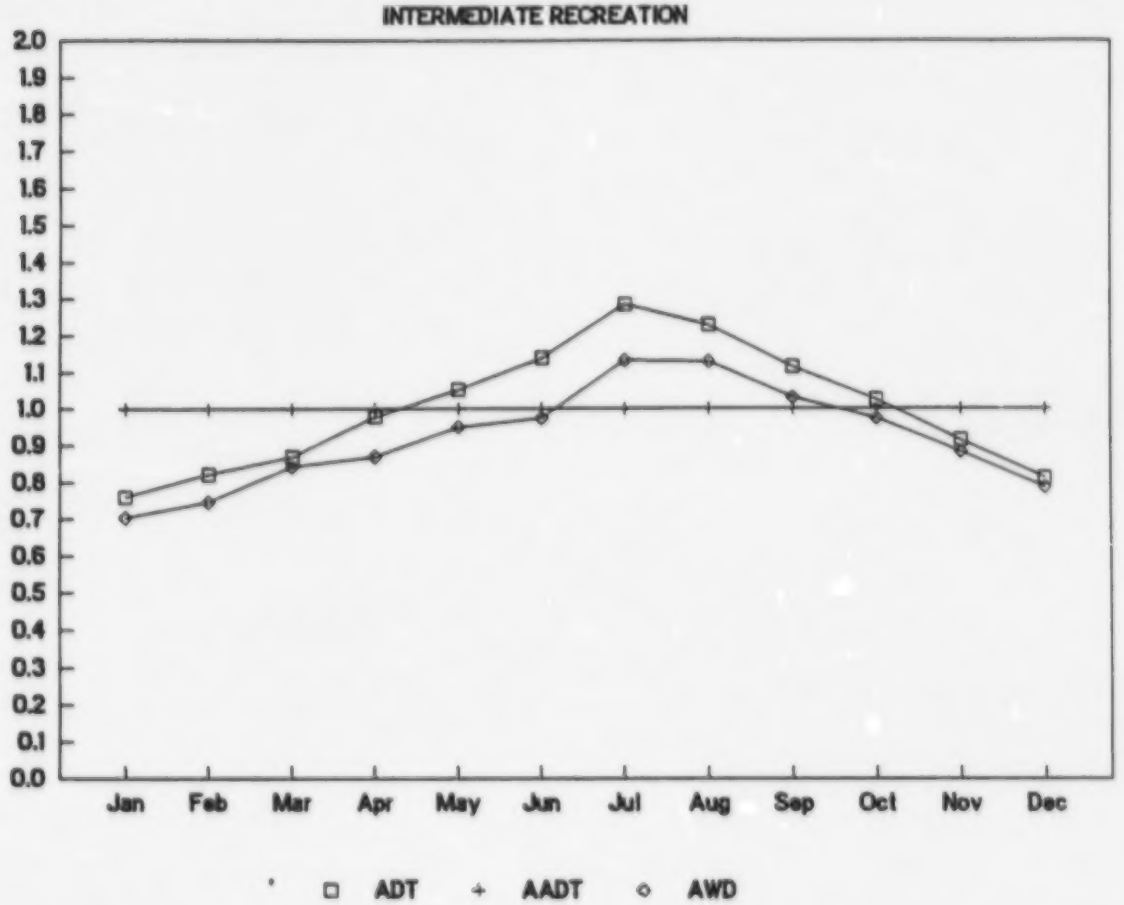
HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1975	12298	0.0	22887	2387	1357	11.0
1980	11388	- 7.4	17876	1842	1289	11.3
1981	11360	- 0.2	18752	1361	1231	10.8
1982	10847	- 4.5	16952	1461	1230	11.3
1983	11016	+ 1.6	18354	1859	1175	10.7
1984	10957	- 0.5	16722	0	0	0.0
1985	11183	+ 2.1	19060	1851	1509	13.5
1986	11796	+ 5.5	16622	1856	1299	11.0
1987	12190	+ 3.3	16955	1905	1292	10.6
1988	12224	+ 0.3	17189	2017	1276	10.4
1989	12948	+ 5.9	17208	1632	1281	9.9

PCS: 091 - KIRBY

INTERMEDIATE RECREATION

1989 SEASONAL VARIATION FACTORS



1989 YEARLY REPORT: PCS 091 - KIRBY

PCS NAME : KIRBY
LOCATION : PRIMARY DESC. - 2.1 KM N OF CLARKE 8TH CONCESSION IC
: SECONDARY DESC. - 1.6 KM S OF N JCT HWY 115
HIGHWAY : 035
LHRS : 27826
OFFSET : 02.10
PATTERN TYPE : INTERMEDIATE RECREATION

	AVERAGE DAILY		MAX. DAILY VOLUME			MAX. HOURLY VOLUME			
MONTH	ADT	FACTOR	DAY	DATE	VOLUME	DAY	DATE	END	VOLUME
JAN	11972	0.756	FRI	27	15804	MON	2	17	1542
FEB	12961	0.819	FRI	24	16089	SUN	12	17	1536
MAR	13721	0.867	SUN	26	19017	FRI	24	12	1747
APR	15452	0.976	SUN	30	22150	SUN	30	20	1944
MAY	16665	1.053	FRI	19	23447	SUN	28	16	2112
JUN	18024	1.139	SUN	25	24704	SUN	18	20	2167
JUL	20304	1.283	FRI	21	25235	SUN	16	21	2223
AUG	19391	1.225	FRI	4	25342	SAT	5	12	2003
SEP	17759	1.122	FRI	1	25683	MON	4	15	2063
OCT	16124	1.019	FRI	6	23636	MON	9	17	2132
NOV	14480	0.915	SAT	11	18099	SAT	11	16	1616
DEC	12882	0.814	MON	25	17541	MON	25	15	1708
AADT	15828		FRI	1	25683	SUN	16	21	2223

30TH HIGHEST HOUR (DHV) = 2000 12.6% OF AADT
SUN JUL 30 19:00-20:00

HISTORICAL DATA

YEAR	AADT	% CHANGE/ PREV. YR.	MAX. DAY	MAX. HOUR	30 HH DHV (DHV)	% OF AADT
1975	10254	0.0	23357	1697	1545	15.1
1980	10961	+ 6.9	23955	1920	1644	15.0
1981	10979	+ 0.2	21067	1904	1663	15.1
1982	10852	- 1.2	23063	1865	1682	15.5
1983	11391	+ 5.0	24138	2032	1730	15.2
1984	11685	+ 2.6	24771	0	0	0.0
1985	12570	+ 7.6	22070	1977	1764	14.0
1986	13357	+ 6.3	21812	1872	1688	12.6
1987	14284	+ 6.9	22950	1972	1770	12.4
1988	14962	+ 4.7	24502	2089	1892	12.6
1989	15828	+ 5.8	25683	2223	2000	12.6

Auxiliary Counting Stations

Ferry Crossings

Border Crossings

Service Centres

INTRODUCTION

Auxiliary Counting Stations

Auxiliary Counting Stations include Ferry Crossings, Border Crossings, and Service Centres. The information gathered at Ferry Crossings and Service Centres is used to monitor the demand for vehicle associated services, and at Border Crossings to monitor the type and number of vehicles entering the Province of Ontario.

Ferry Crossings

The Ministry of Transportation, operates two ferries; the Glenora Ferry and the Wolfe Island Ferry. Both ferries are operated and monitored by District 8, Kingston. Minor variations in the composition of traffic have been noted from year to year, scheduled service to the public has remained stable.

On the Glenora Ferry, the AADT decreased from 822 to 801, down 2.6% from 1988. The Wolfe Island Ferry, however, increased from an AADT of 957 in 1988 to 993 in 1989, up 3.8%.

Border Crossings

The Ministry of Tourism, Research Section, provides the Ministry of Transportation with the Border Crossing data. This data consists of the number and types of vehicles entering Ontario at the international Border Crossings between Ontario and the United States. It should be noted that the data presented is for "inbound traffic only".

All border crossings show a substantial increase in vehicles entering Ontario. Two crossings show a substantial increase over 1988. The Whirlpool Bridge shows an increase of 33.8% and the Rainy River Bridge shows an increase of 81.5%. This may be due to the fact that Canadian tourists are being attracted by generally lower U.S. prices.

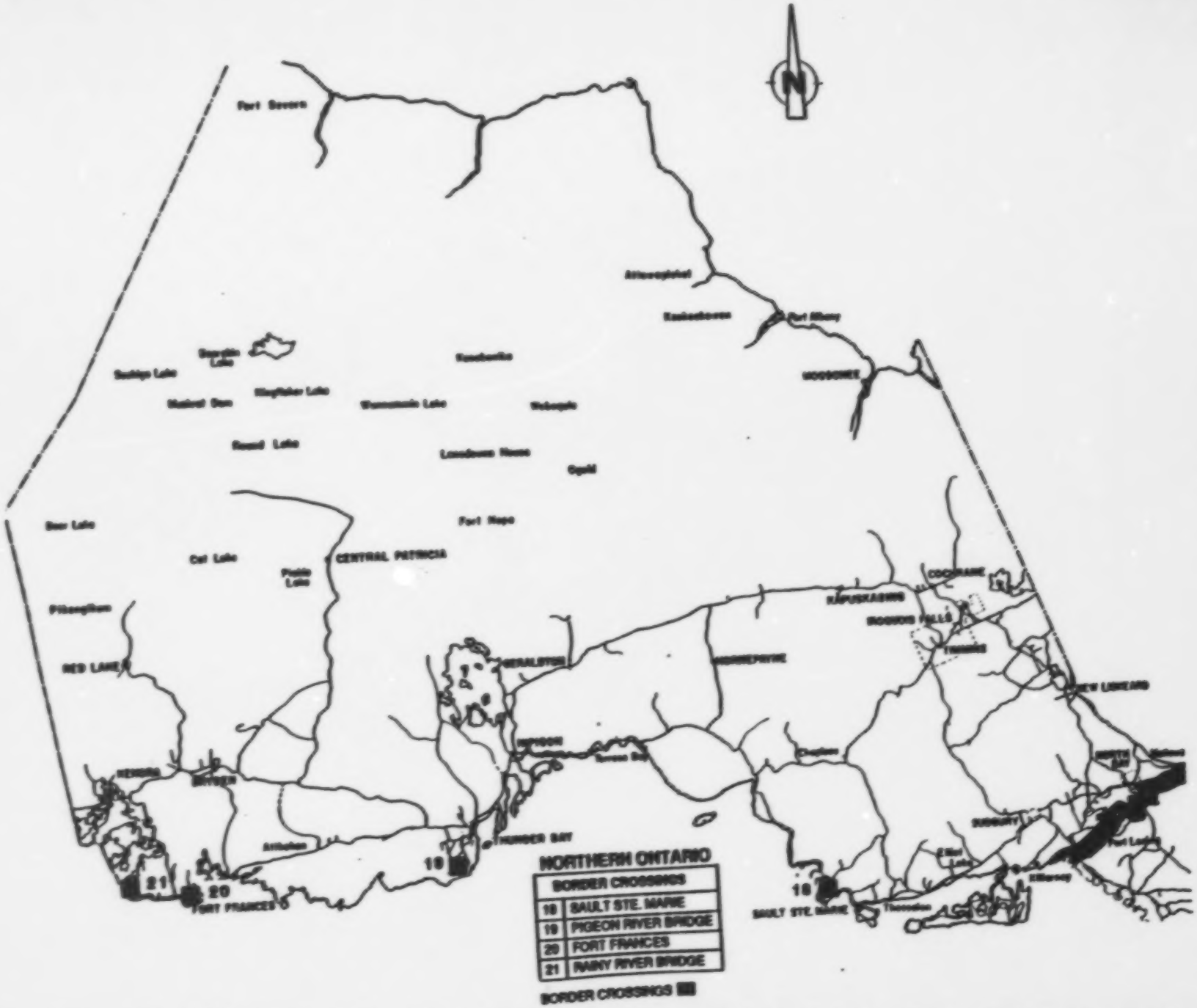
INTRODUCTION

Service Centres

There are twenty-three service centres located along Highway 400 and 401. Traffic is counted on the highway section and service centre entrance as part of the Inventory Count Program. Since the service centres are located on divided highways, it is assumed that one half (assuming directional split of 50/50) of the highway traffic has access. It should also be noted that the "1/2 AADT of Highway Volume" includes the "AADT Service Centre Ramp" volume.

Traffic volume data is gathered annually for the Service Centre Section and the major oil companies to assist in the analysis of major initiatives such as the conversion of restaurants and expansion of facilities or services. Since 1984, the service centres which have converted to fast food outlets continue to show an increase in traffic volumes.

Also included is a chart with the locations of all the Service Centres on Highway 400 and 401 containing the information on facilities and services available at each location, e.g. gift shops, fast food services, etc.


Fort Severn
Attawapiskat
Fort Albany
KAPUSKASING
COCHRANE
IROQUOIS FALLS
TIMMINS
KIRKLAND LAKE
HEARST
NEW LISKEARD
CENTRAL PATRICIA
Fort Hope
RED LAKE
KENORA
DRYDEN
THUNDER BAY
Atikokan
SAULT STE. MARIE
SUDBURY
Chapleau
Wawa
Elliot Lake
Blind River
Thessalon
Espanola
Sturgeon Falls
Cochrane
Kapuskasing
Timmins
Kirkland Lake
Hearst
New Liskeard
Iroquois Falls
Red Lake
Kenora
Dryden
Thunder Bay
Sault Ste. Marie
Sudbury
Elliot Lake
Blind River
Thessalon
Espanola
Sturgeon Falls
Chapleau
Wawa
Fort Severn
Attawapiskat
Fort Albany
Fort Hope
Central Patricia
18
19
20
21
NORTHERN ONTARIO
BORDER CROSSINGS
18 SAULT STE. MARIE
19 PIGEON RIVER BRIDGE
20 FORT FRANCES
21 RAINY RIVER BRIDGE
BORDER CROSSINGS

SOUTHERN ONTARIO

FERRY CROSSINGS		BORDER CROSSINGS		HIGHWAY 400 SERVICE CENTRES		HIGHWAY 401 SERVICE CENTRES			
1	WOLFE ISLAND	3	CORNWALL	22	ESSO S.B.	26	SHELL W.B.	30	ESSO W.B.
2	GLENORA	4	PRESCOTT	23	PETRO-CANADA N.B.	27	ESSO W.B.	31	ESSO E.B.
		5	LANSDOWNE	24	PETRO-CANADA S.B.	28	SHELL E.B.	32	PETRO-CANADA W.B.
		6	ALEXANDRIA POINT	25	PETRO-CANADA N.B.	29	ESSO E.B.	33	PETRO-CANADA E.B.
		7	WHIRLPOOL BRIDGE					34	SHELL W.B.
		8	RAINBOW BRIDGE					35	ESSO E.B.
		9	QUEENSTON BRIDGE					36	ESSO W.B.
		10	FORT ERIE					37	PETRO-CANADA W.B.
		11	PELEE ISLAND					38	PETRO-CANADA E.B.
		12	WINDSOR TUNNEL					39	ESSO W.B.
		13	AMBASSADOR BRIDGE *					40	ESSO E.B.
		14	WALPOLE ISLAND					41	PETRO-CANADA W.B.
		15	SOMBRA					42	SHELL E.B.
		17	SARNIA					43	PETRO-CANADA W.B.
								44	SHELL E.B.

FERRY CROSSINGS ▲
BORDER CROSSINGS ■
SERVICE CENTRES Ⓢ

* Data not available (See Appendix C)

Ferry Crossings

FERRY CROSSING

MTO FERRY : Glenora and The Quinte Loyalist

LOCATION : Highway 33 - Between Glenora and Picton

DATA : Total Two Way Traffic YEAR : 1989

MONTH	FERRY DEPARTURES	TOTAL CARS	TOTAL TRUCKS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	PEDESTRIANS
JAN	1,280	12,339	273	12,612	406	N/A
FEB	1,166	11,812	256	12,068	416	N/A
MAR	1,223	13,320	260	13,580	438	N/A
APR	1,304	17,213	409	17,622	587	N/A
MAY	1,814	24,005	359	24,364	785	N/A
JUN	2,284	30,952	708	31,660	1,055	N/A
JUL	2,640	49,829	1,134	50,963	1,643	N/A
AUG	2,509	43,634	1,344	44,978	1,450	N/A
SEP	2,265	29,882	850	30,732	1,024	N/A
OCT	1,888	24,858	689	25,547	824	N/A
NOV	1,183	15,558	387	15,945	531	N/A
DEC	1,283	11,906	245	12,151	391	N/A
ANNUAL	20,839	285,308	6,914	292,222	801	N/A

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) - 2.6

Total Cars Includes - Cars, Motorcycles, Trailers
Total Trucks Includes - Trucks, Buses

Source : Ministry of Transportation - District 8

FERRY CROSSING

MTO FERRY : Wolfe Islander III and Charlevoix

LOCATION : Hwy 2, Kingston & Hwy 95/96, Wolfe Island

DATA : Total Two Way Traffic YEAR : 1989

MONTH	FERRY DEPARTURES	TOTAL CARS	TOTAL TRUCKS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	PEDESTRIANS
JAN	525	22,448	841	23,289	751	9474
FEB	474	20,621	695	21,316	735	8416
MAR	527	24,305	877	25,182	812	9088
APR	510	27,003	1,117	28,120	937	11687
MAY	527	28,702	1,093	29,795	961	18088
JUN	540	33,182	1,505	34,687	1,156	26224
JUL	559	39,395	1,178	40,573	1,308	38128
AUG	562	39,614	1,261	40,875	1,318	36537
SEP	542	32,353	1,260	33,613	1,120	22778
OCT	559	30,511	1,343	31,854	1,027	14787
NOV	542	27,016	1,129	28,145	938	11578
DEC	558	23,919	909	24,828	800	9245
ANNUAL	6,425	349,069	13,208	362,277	993	216,030

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 3.8

Total Cars Includes - Cars, Motorcycles, Trailers
Total Trucks Includes - Trucks, Buses

Source : Ministry of Transportation - District 8

Border Crossings

BORDER CROSSINGS

CROSSING: Alexandria Point Ferry

LOCATION: Alexandria Point to Cape Vincent, New York

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN						
FEB						
MAR						
APR						
MAY	1131	0	84	1215	39	66.4
JUN	1974	0	342	2316	77	59.8
JUL	4465	0	457	4922	158	69.0
AUG	4501	1	317	4819	155	66.3
SEP	2155	0	187	2342	78	61.8
OCT	921	1	19	941	30	53.7
NOV						
DEC						
ANNUAL	13952	1	1553	16555	45	64.9

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 7.1

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Cornwall Seaway Bridge

LOCATION: Cornwall to Massena, New York

DATA: Inbound Traffic Only YEAR: 1939

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	38422	2123	0	40545	1307	39.0
FEB	37711	2621	0	40332	1440	34.8
MAR	46607	2659	2	49268	1589	38.2
APR	45693	2422	36	48151	1605	44.1
MAY	56336	3335	202	59873	1931	38.5
JUN	56200	3149	412	59761	1992	38.1
JUL	59144	1837	642	61623	1987	46.4
AUG	61446	1945	365	63756	2056	37.3
SEP	51016	2357	200	53573	1785	38.0
OCT	42593	1372	77	44042	1420	39.5
NOV	35212	2159	8	37379	1245	47.6
DEC	34203	1497	0	35700	1151	47.4
ANNUAL	564583	27476	1944	594003	1627	40.5

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 7.8

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Peace Bridge

LOCATION: Fort Erie to Buffalo, New York

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	193581	32954	67	226602	7309	55.1
FEB	169747	30954	0	200701	7167	53.2
MAR	226932	34912	179	262023	8452	52.2
APR	234297	33744	201	268242	8941	55.7
MAY	273315	31160	527	305002	9838	67.6
JUN	323633	31609	491	355733	11857	68.8
JUL	449176	28771	905	478852	15446	73.9
AUG	440322	31951	533	472806	15251	64.5
SEP	301660	31431	530	333621	11120	64.8
OCT	258042	34257	278	292577	9437	59.4
NOV	222926	31845	110	254881	8496	56.6
DEC	208638	26364	58	235060	7582	53.1
ANNUAL	3302269	379952	3879	3686100	10099	62.0

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 1.7

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: International Bridge

LOCATION: Fort Frances to International Falls, Minnesota

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	28285	562	1	28848	930	25.4
FEB	28025	1046	26	29097	1039	23.0
MAR	37037	938	23	37998	1225	20.9
APR	33381	1216	215	34812	1160	22.9
MAY	42823	999	550	44372	1431	47.5
JUN	53918	739	934	55591	1853	56.5
JUL	55302	927	824	57053	1840	50.2
AUG	50592	1157	612	52361	1689	44.3
SEP	40077	955	407	41439	1381	44.6
OCT	36521	1322	177	38020	1226	23.4
NOV	31069	1145	11	32225	1074	18.3
DEC	33001	1208	5	34214	1103	21.8
ANNUAL	470031	12214	3785	486030	1332	36.0

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 7.2

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Thousand Islands Bridge

LOCATION: Lansdowne to Collins Bay, New York

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	22145	9633	2	31780	1025	26.7
FEB	22335	9790	14	32139	1147	28.3
MAR	41851	11979	39	53869	1737	21.9
APR	46975	11077	84	58136	1937	26.5
MAY	58683	11722	391	70796	2283	41.5
JUN	63309	11454	665	75428	2514	52.6
JUL	108618	9894	1080	119592	3857	53.1
AUG	109928	10872	1029	121829	3929	46.4
SEP	71058	11627	626	83311	2777	43.9
OCT	52024	11636	143	63803	2058	31.5
NOV	33486	11721	61	45268	1508	29.3
DEC	27406	9341	2	36749	1185	32.4
ANNUAL	657818	130746	4136	792700	2172	39.8

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 11.9

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Lewiston - Queenston Bridge

LOCATION: Niagara Falls to Niagara Frontier, New York

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	87863	27053	0	114916	3706	38.4
FEB	82558	27297	0	109855	3923	36.8
MAR	115344	31050	5	146399	4722	35.1
APR	121864	28915	35	150814	5027	43.4
MAY	149609	30268	60	179937	5804	41.0
JUN	166448	30459	383	197290	6576	43.7
JUL	234280	24870	369	259519	8371	50.8
AUG	252737	27731	192	280660	9053	45.3
SEP	188597	27013	180	215790	7193	39.4
OCT	173652	27858	85	201595	6503	33.2
NOV	151531	26855	34	178420	5947	36.5
DEC	151100	22901	0	174001	5612	33.6
ANNUAL	1875583	332270	1343	2209196	6053	40.6

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 19.7

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Rainbow Bridge

LOCATION: Niagara Falls to Niagara Falls, New York

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	124601	0	40	124641	4020	34.7
FEB	117291	3	4	117298	4189	31.9
MAR	160881	0	71	160952	5192	32.2
APR	158854	0	345	159199	5306	38.2
MAY	180638	0	662	181300	5848	46.8
JUN	202459	0	1797	204256	6808	51.1
JUL	264090	0	2370	266460	8595	65.1
AUG	268429	2	1819	270250	8717	56.1
SEP	176728	3	598	177329	5910	58.1
OCT	179051	15	279	179345	5785	46.8
NOV	149947	1	122	150070	5002	38.0
DEC	109986	0	21	110007	3548	48.6
ANNUAL	2092955	24	8128	2101107	5756	47.8

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 5.8

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Whirlpool Bridge

LOCATION: Niagara Falls to Niagara Frontier, New York

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	58501	2914	32	61447	1982	37.8
FEB	53668	2949	12	56629	2022	33.9
MAR	68121	3568	50	71739	2314	30.8
APR	73505	3199	226	76930	2564	31.2
MAY	81301	3523	463	85287	2751	31.7
JUN	84843	3380	689	88912	2963	32.3
JUL	100606	2780	773	104159	3359	31.0
AUG	103988	2975	915	107878	3479	30.7
SEP	95995	2871	282	99148	3304	27.9
OCT	96774	2735	177	99686	3215	22.4
NOV	86053	2413	39	88505	2950	20.7
DEC	90636	1137	25	91798	2961	24.4
ANNUAL	993991	34444	3683	1032118	2828	29.2

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 33.8

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Pelee Island Ferry

LOCATION: Pelee Island to Sandusky, Ohio

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN						
FEB						
MAR						
APR						
MAY	95	0	0	95	3	95.8
JUN	265	0	23	288	9	103.5
JUL	444	0	143	587	18	93.4
AUG	443	0	140	583	18	76.0
SEP	137	0	45	182	6	59.9
OCT	6	0	0	6	0	0.0
NOV						
DEC	0	0	62	62	2	0.0
ANNUAL	1390	0	413	1803	5	82.6

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) 0.0

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Pigeon River International Bridge

LOCATION: Pigeon River to Grand Portage, Minnesota

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	3098	1452	12	4562	147	40.4
FEB	3649	1448	1	5098	182	44.8
MAR	7517	1713	0	9230	297	31.5
APR	7491	1580	15	9086	302	26.8
MAY	10687	1303	97	12087	389	56.3
JUN	13638	1324	273	15235	507	72.6
JUL	17615	1443	601	19659	634	66.9
AUG	18789	1363	438	20590	664	65.5
SEP	12985	1449	170	14604	486	62.0
OCT	9525	1709	38	11272	363	36.7
NOV	7206	1703	9	8918	297	24.1
DEC	5931	1465	0	7396	238	26.2
ANNUAL	118131	17952	1654	137737	377	51.7

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 6.8

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Prescott Seaway Skyway

LOCATION: Prescott to Ogdensburg, New York

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	11201	1224	0	12425	400	47.8
FEB	11625	1044	0	12669	452	43.2
MAR	12507	1479	3	13989	451	41.4
APR	12421	1169	34	13624	454	46.8
MAY	14922	1272	64	16258	524	46.5
JUN	15715	1280	226	17221	574	41.9
JUL	22788	1116	286	24190	780	41.3
AUG	23175	1196	251	24622	794	42.0
SEP	18506	1175	156	19837	661	37.9
OCT	17414	1376	68	18858	608	38.0
NOV	14021	1153	3	15177	505	40.2
DEC	13160	1065	0	14225	458	41.2
ANNUAL	187455	14549	1091	203095	556	42.0

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 6.1

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Rainy River Bridge

LOCATION: Rainy River to Baudette, Minnesota

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	7871	352	0	8223	293	10.6
FEB	7433	262	1	7696	274	9.6
MAR	9770	341	4	10115	326	8.1
APR	9413	324	39	9776	325	12.6
MAY	13916	378	98	14392	464	19.8
JUN	14516	368	349	15233	507	22.3
JUL	15609	329	217	16155	521	21.8
AUG	15920	358	204	16482	531	14.9
SEP	12351	362	117	12830	427	18.4
OCT	11865	540	51	12456	401	8.4
NOV	10291	378	3	10672	355	5.6
DEC	11120	306	1	11427	368	5.8
ANNUAL	140075	4298	1084	145457	399	14.1

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 82.2

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Bluewater Bridge

LOCATION: Sarnia to Port Huron, Michigan

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	116972	25315	46	142333	4591	56.5
FEB	108555	25209	200	133964	4784	56.0
MAR	137938	27416	142	165496	5338	52.2
APR	140957	27325	225	168507	5616	54.3
MAY	161183	28256	184	189623	6116	50.1
JUN	176405	26629	322	203356	6778	53.7
JUL	222242	20262	680	243184	7844	55.7
AUG	230494	25870	825	257189	8296	48.1
SEP	187183	24920	546	212649	7088	51.5
OCT	175278	26791	322	202391	6528	44.3
NOV	159517	24600	62	184179	6139	40.8
DEC	151950	21840	30	173820	5607	42.6
ANNUAL	1968674	304433	3584	2276691	6238	48.5

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 7.8

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Sault Ste. Marie International Bridge

LOCATION: Sault Ste Marie to Sault Ste Marie, Michigan

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	85023	2839	670	88532	2855	21.3
FEB	81919	3315	916	86150	3076	21.8
MAR	99377	3214	630	103221	3329	20.6
APR	101091	3550	312	104953	3498	19.3
MAY	116547	3984	1149	121680	3925	23.9
JUN	112186	4040	725	116951	3898	32.0
JUL	158659	3218	1450	163327	5268	32.6
AUG	156102	3361	1205	160668	5182	32.5
SEP	139086	4265	565	143916	4797	28.9
OCT	126109	4363	193	130665	4215	22.5
NOV	102200	3572	36	105808	3526	19.7
DEC	103788	4212	780	108780	3509	16.2
ANNUAL	1382087	43933	8631	1434651	3931	25.2

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 7.3

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Bluewater Ferry

LOCATION: Sombra to Marine City, Michigan

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	2959	414	0	3373	108	35.5
FEB	2904	355	0	3259	116	38.0
MAR	4200	481	1	4682	151	23.1
APR	3311	462	0	3773	125	43.2
MAY	5447	458	28	5933	191	43.1
JUN	4069	352	11	4432	147	74.1
JUL	5017	371	48	5436	175	65.0
AUG	5482	381	76	5939	191	61.4
SEP	5007	402	20	5429	180	50.8
OCT	4645	382	11	5038	162	54.6
NOV	5059	397	1	5457	181	35.3
DEC	3292	261	0	3553	114	45.6
ANNUAL	51392	4716	196	56304	154	48.4

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 4.8

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Walpole Island Ferry

LOCATION: Walpole Island to Algonac, Michigan

DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	2342	0	2	2344	75	22.4
FEB	1075	0	0	1075	38	20.9
MAR	2004	0	2	2006	64	47.2
APR	4258	0	17	4275	142	26.5
MAY	3481	0	6	3487	112	78.7
JUN	5192	0	4	5196	173	37.7
JUL	4987	0	62	5049	162	79.2
AUG	5033	0	68	5101	164	44.0
SEP	4681	0	14	4695	156	51.5
OCT	4583	0	1268	5851	188	49.4
NOV	5773	0	3	5776	192	30.7
DEC	2621	0	0	2621	84	59.4
ANNUAL	46030	0	1446	47476	130	47.2

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 11.1

Source : Ministry of Tourism : Research Section

BORDER CROSSINGS

CROSSING: Windsor (Tunnel only)

LOCATION: Windsor to Detroit, Michigan

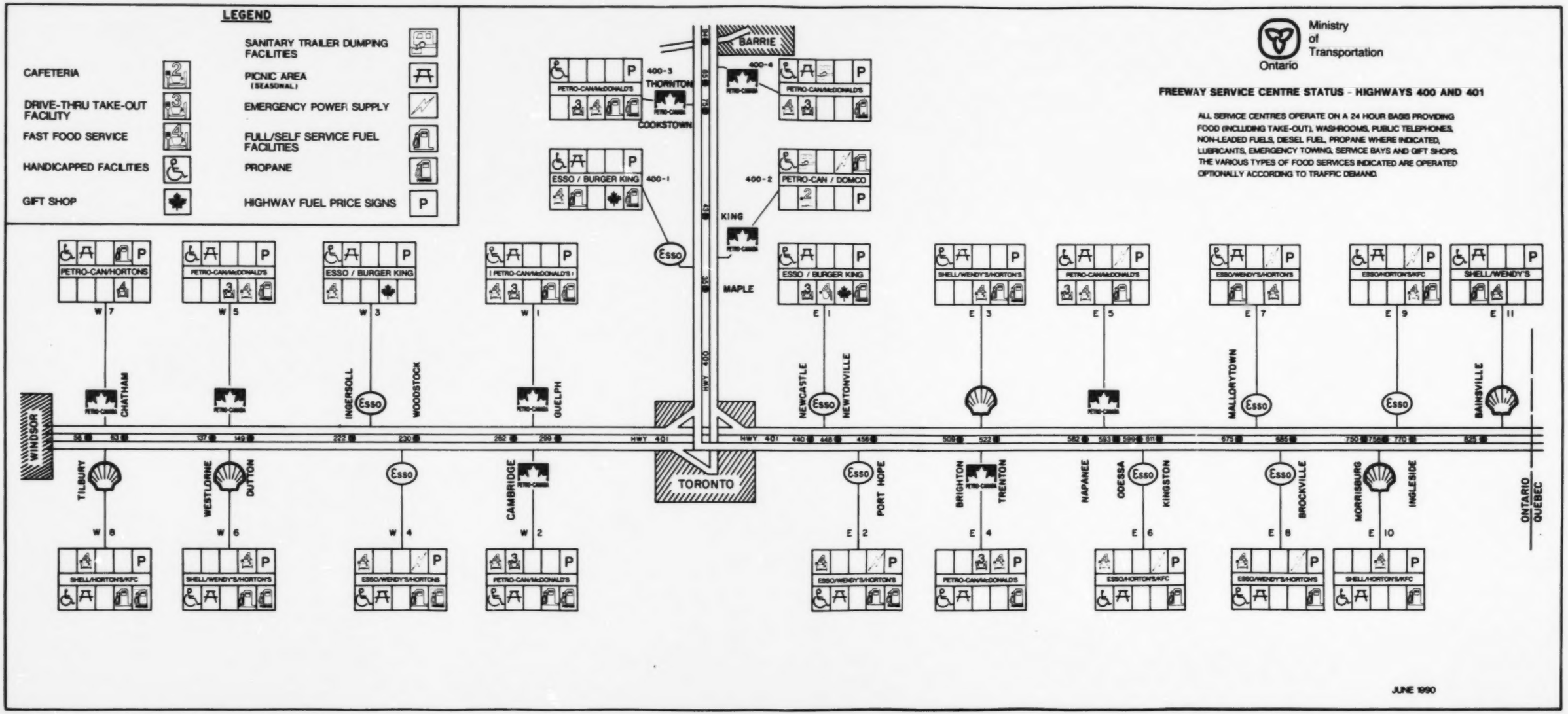
DATA: Inbound Traffic Only YEAR: 1989

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHER	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	220769	8443	0	229212	7393	111.0
FEB	206457	15340	0	221797	7921	102.3
MAR	253163	14502	0	267665	8634	104.6
APR	239023	12686	0	251709	8390	112.4
MAY	252574	12426	0	265000	8548	117.1
JUN	244597	12185	0	256782	8559	119.7
JUL	289008	9192	0	298200	9619	120.7
AUG	295226	12366	0	307592	9922	113.4
SEP	265229	11631	0	276860	9228	103.8
OCT	256854	10862	0	267716	8636	106.8
NOV	251411	10469	0	261880	8729	99.0
DEC	251538	8705	0	260243	8394	100.3
ANNUAL	3025849	138807	0	3164656	8670	109.5

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) N/A

Source : Ministry of Tourism : Research Section

Service Centres


LEGEND
CAFETERIA
DRIVE-THRU TAKE-OUT FACILITY
FAST FOOD SERVICE
HANDICAPPED FACILITIES
GIFT SHOP
SANITARY TRAILER DUMPING FACILITIES
PICNIC AREA (SEASONAL)
EMERGENCY POWER SUPPLY
FULL/SELF SERVICE FUEL FACILITIES
PROPANE
HIGHWAY FUEL PRICE SIGNS
Ontario
Ministry of Transportation
FREEWAY SERVICE CENTRE STATUS - HIGHWAYS 400 AND 401
ALL SERVICE CENTRES OPERATE ON A 24 HOUR BASIS PROVIDING FOOD (INCLUDING TAKE-OUT), WASHROOMS, PUBLIC TELEPHONES, NON-LEADED FUELS, DIESEL FUEL, PROPANE WHERE INDICATED, LUBRICANTS, EMERGENCY TOWING, SERVICE BAYS AND GIFT SHOPS. THE VARIOUS TYPES OF FOOD SERVICES INDICATED ARE OPERATED OPTIONALLY ACCORDING TO TRAFFIC DEMAND.
BARRIE
400-3
THORNTON
COOKSTOWN
400-4
400-1
400-2
KING
MAPLE
ESSO
WINDSOR
CHATHAM
INGERSOLL
WOODSTOCK
GUELPH
HWY 400
NEWCASTLE
NEWTONVILLE
MALLORYTOWN
BAINSVILLE
TILBURY
WESTLORNE
DUTTON
CAMBRIDGE
TORONTO
PORT HOPE
BRIGHTON
TRENTON
NAPANEE
ODESSA
KINGSTON
BROCKVILLE
MORRISBURG
INGLESIDE
ONTARIO
QUEBEC
HWY 401
PETRO-CAN/HORTONS
PETRO-CAN/McDONALD'S
ESSO / BURGER KING
PETRO-CAN / DOMCO
SHELL/WENDY'S/HORTON'S
ESSO/WENDY'S/HORTON'S
ESSO/HORTON'S/KFC
SHELL/WENDY'S
SHELL/HORTON'S/KFC
W 7
W 5
W 3
W 1
E 1
E 3
E 5
E 7
E 9
E 11
W 8
W 6
W 4
W 2
E 2
E 4
E 6
E 8
E 10
JUNE 1990

SERVICE CENTRES

HIGHWAY 400 - South Bound — **ESSO**

Between IC 35 - Major MacKenzie Drive
and IC 43 - King City Road

SITE #: 400-1
HPO: 400 130 93

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	22,000	1,650	7.5
1984	23,200	1,050	4.5
1985	24,000	1,900	7.9
1986	25,700	2,000	7.8
1987	27,000	2,150	8.0
1988	27,700	1,950	7.0
1989	32,100	2,000	6.2

HIGHWAY 400 - North Bound — **PETRO-CANADA**

Between IC 35 - Major McKenzie Drive
and IC 43 - King City Road

SITE #: 400-2
HPO: 400 130 92

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	22,000	1,450	6.6
1984	23,200	1,850	8.0
1985	24,000	1,700	7.1
1986	25,700	1,800	7.0
1987	27,000	1,950	7.2
1988	27,700	2,000	7.2
1989	32,100	1,800	5.6

SERVICE CENTRES

HIGHWAY 400 - South Bound — **PETRO-CANADA**

At IC 75 - Highway 89

SITE #: 400-3
HPO: 400 170 703

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	14,000	1,000	7.1
1984	14,825	900	6.1
1985	16,850	1,200	7.1
1986	16,225	1,450	8.9
1987	18,225	1,800	9.9
1988	18,650	1,850	9.9
1989	22,450	1,700	7.6

HIGHWAY 400 - North Bound — **PETRO-CANADA**

Between IC 85 - Innisfil Beach Road
and IC 94 - Highway 27

SITE #: 400-4
HPO: 400 180 704

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	13,500	1,050	7.8
1984	14,375	1,050	7.3
1985	15,425	1,400	9.1
1986	16,000	1,600	10.0
1987	18,000	1,750	9.7
1988	18,000	1,900	10.6
1989	23,250	2,400	10.3

SERVICE CENTRES

HIGHWAY 401 - West Bound — **SHELL**

Between Ontario/Quebec Boundary — **SITE #: E11**
and IC 825 - Curry Hill Road — **HPO: 401 20 960**

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	5,050	775	15.3
1984	5,875	1,100	18.7
1985	6,250	900	14.4
1986	6,900	1,200	17.4
1987	6,550	1,050	16.0
1988	6,800	1,100	16.2
1989	6,200	1,300	21.0

HIGHWAY 401 - West Bound — **ESSO**

Between IC 770 - Dickinson Road — **SITE #: E9**
and IC 758 - Upper Canada Road — **HPO: 401 70 962**

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	4,450	900	20.2
1984	4,775	900	18.8
1985	4,950	1,000	20.2
1986	5,450	1,100	20.2
1987	5,800	1,100	19.0
1988	6,225	1,000	16.1
1989	5,650	1,100	19.5

SERVICE CENTRES

HIGHWAY 401 - East Bound — **SHELL**

Between IC 758 - Upper Canada Road
and IC 750 - Highway 31

SITE #: E10
HPO: 401 75 961

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	4,450	1,100	24.7
1984	4,725	950	20.1
1985	5,000	1,250	25.0
1986	5,500	1,000	18.2
1987	5,850	1,250	21.4
1988	6,155	1,250	20.3
1989	6,300	1,400	22.2

HIGHWAY 401 - East Bound — **ESSO**

Between IC 685 - Thousand Islands Parkway
and IC 675 - Mallorytown Road

SITE #: E8
HPO: 401 137 963

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	5,175	1,000	19.3
1984	5,400	1,050	19.4
1985	5,500	1,150	20.9
1986	6,000	1,200	20.0
1987	6,300	1,250	19.8
1988	7,275	1,400	19.2
1989	8,150	1,400	17.2

SERVICE CENTRES

HIGHWAY 401 - West Bound — **ESSO**

Between IC 685 - Thousand Islands Parkway — SITE #: E7
and IC 675 - Mallorytown Road — HPO: 401 137 964

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	5,175	850	16.4
1984	5,400	1,150	21.3
1985	5,500	1,250	22.7
1986	6,000	1,300	21.7
1987	6,300	1,350	21.4
1988	7,275	1,350	18.6
1989	8,150	1,450	17.8

HIGHWAY 401 - East Bound — **ESSO**

Between IC 611 - Highway 38 — SITE #: E6
and IC 599 - Wilton Road — HPO: 401 190 965

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	7,300	1,200	16.4
1984	8,025	1,350	16.8
1985	8,300	1,400	16.9
1986	8,800	1,400	15.9
1987	10,500	1,450	13.8
1988	10,875	1,500	13.8
1989	11,600	1,500	12.9

SERVICE CENTRES

HIGHWAY 401 - West Bound — **PETRO-CANADA**

Between IC 593 - Hwy 133/Camden East Road — SITE #: E5
and IC 582 - Palace Road — HPO: 401 215 966

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	7,200	900	12.5
1984	7,875	900	11.4
1985	7,750	1,000	12.9
1986	8,400	1,100	13.1
1987	9,150	1,100	12.0
1988	9,400	1,150	12.2
1989	10,900	1,200	11.0

HIGHWAY 401 - East Bound — **PETRO-CANADA**

Between IC 522 - Wooler Road — SITE #: E4
and IC 509 - Highway 30 — HPO: 401 270 95

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	8,750	1,450	16.6
1984	9,350	1,400	15.0
1985	9,450	2,000	21.2
1986	9,600	2,100	21.9
1987	10,000	2,450	24.5
1988	10,575	2,350	22.2
1989	12,500	2,000	16.0

SERVICE CENTRES

HIGHWAY 401 - West Bound — **SHELL**

Between IC 522 - Wooler Road
and IC 509 - Highway 30

SITE #: E3
HPO: 401 270 96

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	8,750	1,300	14.9
1984	9,350	2,000	21.4
1985	9,450	1,800	19.0
1986	9,600	2,000	20.8
1987	10,000	2,550	25.5
1988	10,575	2,800	26.5
1989	12,500	3,000	24.0

HIGHWAY 401 - East Bound — **ESSO**

Between IC 456 - Wesleyville Road
and IC 448 - Newtonville Road

SITE #: E2
HPO: 401 315 95

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	11,900	2,050	17.2
1984	12,550	2,000	15.9
1985	13,300	2,050	15.4
1986	13,650	1,950	14.3
1987	16,600	2,950	17.8
1988	17,225	3,150	18.3
1989	18,450	3,200	17.3

SERVICE CENTRES

HIGHWAY 401 - West Bound — **ESSO**

Between IC 448 - Newtonville Road — SITE #: E1
and IC 440 - Mill Street — HPO: 401 320 96

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	10,750	1,650	15.3
1984	12,050	2,300	19.1
1985	13,000	2,500	19.2
1986	13,450	2,650	19.7
1987	15,000	3,350	22.3
1988	15,600	2,700	17.3
1988	17,500	2,650	15.1

HIGHWAY 401 - West Bound — **PETRO-CANADA**

Between IC 299 - Highway 6 — SITE #: W1
and IC 282 - Waterloo/Wellington Road 33 — HPO:401 647 96

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	16,750	1,850	11.0
1984	17,750	2,000	11.3
1985	19,700	2,250	11.4
1986	19,950	2,350	11.8
1987	21,000	2,550	12.1
1988	26,550	2,800	10.5
1989	29,050	3,800	13.1

SERVICE CENTRES

HIGHWAY 401 - East Bound — **PETRO-CANADA**

Between IC 299 - Highway 6 — SITE #: W2
and IC 282 - Waterloo/Wellington Road 33 — HPO:401 647 95

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	16,750	1,850	11.0
1984	17,750	2,000	11.3
1985	19,700	2,050	10.4
1986	19,950	2,200	11.0
1987	21,000	2,450	11.7
1988	26,550	2,850	10.7
1989	29,050	3,600	12.4

HIGHWAY 401 - West Bound — **ESSO**

Between IC 230 - Sweaburg Road — SITE #: W3
and IC 222 - Oxford Road 6 — HPO: 401 735 987

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	12,000	1,850	15.4
1984	13,350	1,700	12.7
1985	13,450	2,300	17.1
1986	14,200	2,450	17.3
1987	15,500	2,800	18.1
1988	17,375	2,850	16.4
1989	18,700	2,850	15.2

SERVICE CENTRES

HIGHWAY 401 - East Bound — **ESSO**

Between IC 230 - Sweaburg Road
and IC 222 - Oxford Road 6

SITE #: W4
HPO: 401 735 988

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	12,000	1,700	14.2
1984	13,350	1,900	14.2
1985	13,450	2,150	16.0
1986	14,200	2,050	14.4
1987	15,500	2,300	14.8
1988	17,375	2,550	14.7
1989	18,700	3,100	16.6

HIGHWAY 401 - West Bound — **PETRO-CANADA**

Between IC 149 - Currie Road
and IC 137 - Highway 76

SITE #: W5
HPO: 401 770 989

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	7,150	1,450	20.3
1984	7,625	1,400	18.4
1985	7,700	1,900	24.7
1986	7,700	2,050	26.6
1987	8,300	2,250	27.1
1988	8,850	2,300	26.0
1989	8,900	2,300	25.8

SERVICE CENTRES

HIGHWAY 401 - East Bound — **SHELL**

Between IC 149 - Currie Road
and IC 137 - Highway 76

SITE #: W6
HPO: 401 770 980

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	7,150	1,200	16.8
1984	7,625	1,450	19.0
1985	7,700	1,400	18.2
1986	7,700	1,450	18.8
1987	8,300	2,200	26.5
1988	8,850	2,200	24.9
1989	8,900	2,400	27.0

HIGHWAY 401 - West Bound — **PETRO-CANADA**

Between IC 63 - E. Jct Highway 2, Tilbury
and IC 56 - W. Jct Highway 2, Tilbury

SITE #: W7
HPO: 401 910 991

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	5,250	950	18.1
1984	5,900	1,050	17.8
1985	5,950	1,200	20.2
1986	6,150	1,200	19.5
1987	6,500	1,250	19.2
1988	7,050	1,050	14.9
1989	8,100	1,300	16.0

SERVICE CENTRES

HIGHWAY 401 - East Bound — SHELL

Between IC 63 - E. Jct Highway 2, Tilbury — SITE #: W8
and IC 56 - W. Jct Highway 2, Tilbury — HPO: 401 910 992

YEAR	1/2 AADT OF HWY VOLUME	AADT S.C. RAMP	% OF HIGHWAY AADT
1983	5,250	800	15.2
1984	5,900	900	15.3
1985	5,950	900	15.1
1986	6,150	1,025	16.7
1987	6,500	1,250	19.2
1988	7,050	1,600	22.7
1989	8,100	2,000	24.7

Appendices

a. Glossary

b. Adjustment Factor Tables

c. Correspondence Regarding Ambassador Bridge Border Crossing Data.

GLOSSARY

Adjustment Factors	AADT/AWD orAADT/ADT. Factors used to estimate AADT from short-term manual or machine count data.
AADT	Annual Average Daily Traffic; defined as the average twenty-four hour, two way traffic for the period January 1st to December 31st.
ADT	Average Daily Traffic; defined as the average twenty-four hour, two way traffic for the specified period, weekend included.
AWD	Average Weekday Traffic; defined as the average twenty-four hour, two way traffic for the specified period. Weekends and Statutory holidays are excluded.
DHV	Design Hour Volume; defined as the 30th highest hourly volume of the year measured at a PCS location.
Directional Split	Defined as a measure of the division of traffic in opposing flows.
Foreign Component %	Defined as the number of vehicles without a Canadian licence plate entering Ontario; expressed as a percent of total vehicles.
Highway Section	Defined as a length of highway which has similar traffic volumes, seasonal variation, and related traffic characteristics.
Ferry Departures	Defined as the number of sailings or crossings made by a ferry.
Seasonal Variation Factors	ADT/AADT and AWD/AADT. Indicates the relationship of traffic volumes to the AADT for the specified time period.

Appendix b

A.W.D. ADJUSTMENT FACTORS FOR USE IN 1990

	PATTERN TYPE AND P.C.S.#	JAN1 JAN2	FEB1 FEB2	MAR1 MAR2	APR1 APR2	MAY1 MAY2	JUN1 JUN2	JUL1 JUL2	AUG1 AUG2	SEP1 SEP2	OCT1 OCT2	NOV1 NOV2	DEC1 DEC2
COMMUTER	URBAN COMM.	1.01	1.00	.96	.93	.91	.91	.91	.93	.93	.91	.96	.96
	74,75	1.00	.97	.95	.93	.91	.90	.91	.90	.93	.93	.97	.94
	SUBURBAN	1.06	1.03	1.01	.97	.89	.85	.85	.89	.89	.89	.91	.94
	COMMUTER 22	1.03	1.03	1.00	.94	.87	.83	.87	.86	.91	.90	.92	.93
	COMMUTER	1.12	1.16	1.07	1.02	.95	.93	.89	.94	.95	.95	.98	1.05
	31,77,90	1.10	1.13	1.05	.98	.94	.91	.89	.91	.97	.98	1.00	1.04
INTERMEDIATE	INTERMEDIATE	1.16	1.15	1.10	1.03	.96	.94	.89	.89	.95	.94	1.03	1.04
	COMMUTER 30	1.14	1.11	1.07	1.00	.95	.91	.87	.90	.98	1.01	1.05	.99
	COMMUTER	1.25	1.20	1.19	1.19	1.02	.95	.83	.84	.92	1.06	1.06	1.17
	REC. 37	1.24	1.20	1.18	1.13	.99	.88	.79	.84	.99	1.11	1.10	1.10
	INTER. REC.	1.51	1.43	1.36	1.27	1.15	1.09	.91	.86	1.01	1.07	1.20	1.32
	4,32,35,91	1.49	1.39	1.28	1.15	1.09	.96	.86	.87	1.09	1.19	1.26	1.22
	COM. TOURIST	1.29	1.29	1.09	1.15	1.06	.99	.83	.80	.94	1.01	1.12	1.16
	REC. 2	1.30	1.23	1.13	1.08	1.02	.92	.79	.82	1.00	1.09	1.15	1.10
	INTERMEDIATE	1.43	1.34	1.27	1.17	1.06	.97	.75	.74	.87	.93	.99	1.26
	TOURIST 27	1.42	1.30	1.21	1.06	1.02	.87	.71	.75	.97	1.05	1.07	1.05
TOURIST	LOW TOURIST	1.46	1.39	1.29	1.18	.99	.89	.72	.71	.82	.91	1.12	1.22
	33	1.44	1.35	1.24	1.10	.96	.79	.70	.72	.88	1.05	1.24	1.14
	TOURIST	1.62	1.66	1.58	1.54	1.15	.79	.52	.59	.87	1.08	1.52	1.65
	69	1.68	1.58	1.58	1.36	.89	.69	.53	.65	1.02	1.33	1.72	1.66
	HIGH TOURIST	2.63	2.63	2.12	1.80	1.25	.71	.52	.56	.93	1.39	1.86	1.80
	68	2.71	2.51	1.93	1.53	.75	.55	.48	.63	1.25	1.55	1.98	2.14
REC	LOW REC.	2.17	2.06	1.91	1.80	1.43	1.27	.80	.68	1.00	1.14	1.60	1.81
	5	2.13	1.96	1.77	1.52	1.23	1.05	.70	.74	1.10	1.49	1.75	1.57
	RECREATION	2.82	2.57	2.23	2.01	1.44	1.21	.71	.65	1.00	1.11	1.74	2.32
	36	2.68	2.36	2.07	1.59	1.17	.90	.63	.72	1.15	1.59	2.10	1.87
	HIGH REC.	2.40	2.31	2.11	1.96	1.42	1.24	.65	.59	1.01	1.50	1.79	2.25
	28	2.45	2.24	2.02	1.74	1.02	.73	.59	.67	1.36	1.74	2.18	1.93

A.W.D. ADJUSTMENT FACTORS FOR USE IN 1990

	PATTERN TYPE AND P.C.S.#	JAN1 JAN2	FEB1 FEB2	MAR1 MAR2	APR1 APR2	MAY1 MAY2	JUN1 JUN2	JUL1 JUL2	AUG1 AUG2	SEP1 SEP2	OCT1 OCT2	NOV1 NOV2	DEC1 DEC2
UNCLASSIFIED	RAMP	.95	.96	.93	.90	.86	.86	.90	.98	.90	.89	.89	.92
	24,44	.94	.94	.93	.86	.85	.88	.94	.92	.90	.89	.90	.90
	WOODSTOCK	1.36	1.29	1.19	1.11	1.09	1.04	.91	.91	.96	1.03	1.11	1.21
	43	1.33	1.24	1.13	1.05	1.06	.96	.90	.88	1.03	1.17	1.15	1.10
	BELFIELD	.96	.98	.93	.95	.89	.87	.89	.89	.88	.89	.92	.93
	34	.97	.93	.93	.92	.88	.85	.89	.84	.90	.91	.92	.88
	LONDON	1.20	1.18	1.05	1.01	.98	.95	.92	.87	.99	.96	1.04	1.13
	45	1.19	1.12	1.03	.98	.96	.88	.88	.86	1.07	.99	1.07	1.01
	KENORA	2.12	2.14	1.88	1.55	1.26	1.00	.64	.65	1.02	1.20	1.57	1.75
	86	2.06	2.00	1.71	1.48	1.13	.84	.62	.73	1.11	1.40	1.70	1.64
	THUNDER BAY	1.45	1.45	1.35	1.31	1.11	.88	.71	.71	.89	.96	1.24	1.36
	47	1.39	1.41	1.29	1.28	.97	.79	.70	.76	.98	1.10	1.35	1.35

* AVERAGE OF 3 YEARS: 1987, 1988, 1989

** A.A.D.T. = A.W.D. * FACTOR

A.D.T. ADJUSTMENT FACTORS FOR USE IN 1990

	PATTERN TYPE AND P.C.S.#	JAN1 JAN2	FEB1 FEB2	MAR1 MAR2	APR1 APR2	MAY1 MAY2	JUN1 JUN2	JUL1 JUL2	AUG1 AUG2	SEP1 SEP2	OCT1 OCT2	NOV1 NOV2	DEC1 DEC2
COMMUTER	URBAN COMM. 74,75	1.09 1.08	1.06 1.04	1.02 1.00	.99 .99	.96 .96	.96 .95	.97 .96	.97 .94	.96 .96	.99 .98	1.02 1.03	1.02 .99
COMMUTER	SUBURBAN COMMUTER 22	1.17 1.14	1.14 1.13	1.10 1.09	1.06 1.01	.94 .93	.90 .88	.92 .93	.93 .89	.93 .93	.97 .97	.98 1.00	1.02 1.02
COMMUTER	COMMUTER 31,77,90	1.16 1.14	1.19 1.16	1.08 1.06	1.04 .99	.96 .95	.93 .91	.90 .89	.93 .90	.95 .96	.96 .99	1.00 1.02	1.08 1.07
INTERMEDIATE	INTERMEDIATE COMMUTER 30	1.22 1.20	1.19 1.16	1.11 1.08	1.02 1.00	.96 .94	.91 .89	.88 .86	.88 .89	.96 .97	.96 1.03	1.06 1.07	1.06 1.02
INTERMEDIATE	COMMUTER REC. 37	1.26 1.24	1.21 1.20	1.18 1.17	1.22 1.12	.95 .94	.88 .83	.78 .75	.79 .80	.89 .94	1.04 1.11	1.08 1.12	1.20 1.15
INTERMEDIATE	INTER. REC. 4,32,35,91	1.38 1.37	1.27 1.23	1.22 1.18	1.17 1.02	.99 .96	.93 .85	.81 .77	.77 .79	.91 .98	.95 1.05	1.07 1.14	1.24 1.18
INTERMEDIATE	COM. TOURIST REC. 2	1.32 1.30	1.29 1.21	1.07 1.08	1.12 1.04	1.01 .97	.95 .88	.81 .77	.78 .79	.91 .97	1.00 1.06	1.09 1.10	1.16 1.14
INTERMEDIATE	INTERMEDIATE TOURIST 27	1.55 1.52	1.40 1.33	1.31 1.27	1.24 1.08	1.06 1.04	.97 .88	.72 .69	.72 .74	.87 .97	.95 1.09	1.04 1.12	1.39 1.18
TOURIST	LOW TOURIST 33	1.49 1.45	1.40 1.35	1.29 1.23	1.18 1.10	.98 .94	.88 .79	.72 .71	.72 .73	.83 .89	.93 1.04	1.13 1.22	1.23 1.15
TOURIST	TOURIST 69	1.66 1.71	1.65 1.55	1.51 1.54	1.52 1.30	1.09 .87	.78 .64	.52 .52	.58 .64	.85 .99	1.07 1.27	1.48 1.71	1.65 1.67
TOURIST	HIGH TOURIST 68	2.74 2.70	2.57 2.44	2.11 1.92	1.79 1.46	.99 .60	.57 .49	.49 .46	.53 .61	.87 1.20	1.35 1.51	1.76 2.14	2.03 2.10
REC	LOW REC. 5	1.83 1.76	1.70 1.59	1.55 1.48	1.57 1.26	1.07 .99	.92 .80	.62 .57	.57 .63	.85 .95	.89 1.20	1.32 1.51	1.64 1.54
REC	RECREATION 36	2.41 2.18	2.11 1.88	1.82 1.75	1.72 1.27	1.06 .92	.85 .71	.58 .51	.54 .59	.81 .93	.87 1.20	1.37 1.71	2.06 1.90
REC	HIGH REC. 28	2.26 2.20	1.95 1.90	1.83 1.77	1.67 1.47	1.09 .78	.85 .58	.52 .49	.50 .57	.99 1.15	1.18 1.39	1.47 1.93	2.08 1.91

A.D.T. ADJUSTMENT FACTORS FOR USE IN 1990

	PATTERN TYPE AND P.C.S.#	JAN1 JAN2	FEB1 FEB2	MAR1 MAR2	APR1 APR2	MAY1 MAY2	JUN1 JUN2	JUL1 JUL2	AUG1 AUG2	SEP1 SEP2	OCT1 OCT2	NOV1 NOV2	DEC1 DEC2
UNCLASSIFIED	RAMP	1.05	1.05	1.02	.99	.94	.95	1.00	1.04	.96	1.00	.97	.99
	24,44	1.04	1.03	1.01	.96	.94	.97	1.03	.99	.96	.97	.98	.98
	WOODSTOCK	1.34	1.23	1.12	1.05	1.00	.94	.85	.86	.90	.95	1.03	1.19
	43	1.28	1.18	1.06	1.00	1.00	.90	.84	.83	.95	1.05	1.06	1.11
	BELFIELD	1.05	1.08	1.01	1.06	.97	.96	.98	.94	.94	.99	1.00	1.03
	34	1.07	1.01	1.01	1.02	.96	.93	.97	.89	.96	1.00	1.02	.98
	LONDON	1.29	1.23	1.06	1.04	.99	.95	.91	.84	.96	.96	1.04	1.19
	45	1.26	1.16	1.02	1.00	.97	.89	.86	.84	1.01	1.01	1.07	1.10
	KENORA	2.00	1.95	1.74	1.44	1.07	.79	.55	.56	.87	1.08	1.48	1.63
	86	1.87	1.85	1.62	1.33	.93	.72	.52	.62	.92	1.25	1.58	1.61
	THUNDER BAY	1.48	1.47	1.33	1.31	1.06	.80	.67	.68	.86	.93	1.24	1.38
	47	1.40	1.40	1.28	1.23	.88	.73	.66	.71	.91	1.06	1.35	1.38

* AVERAGE OF 3 YEARS: 1987, 1988, 1989 ** A.A.D.T. = A.D.T. * FACTOR

S.A.D.T., S.A.W.D.T., W.A.D.T. AND D.H.V. FACTORS FOR 1990

	PATTERN TYPE	PCS #	MULTIPLY A.A.D.T. BY			
			SADT	SAWDT	WADT	DHV %
COMMUTER	URBAN COMMUTER	74,75	1.05	1.13	.95	8.9
	SUBURBAN COMMUTER	22	1.10	1.20	.89	11.8
	COMMUTER	31,77 90	1.11	1.12	.90	9.4
INTERMEDIATE	INTERMEDIATE COMMUTER	30	1.15	1.13	.89	10.0
	COMMUTER RECREATION	37	1.28	1.19	.84	10.7
	INTERMEDIATE RECREATION	4,32 35,91	1.29	1.11	.82	13.6
	COM. TOURIST RECREATION	2	1.27	1.21	.86	9.8
	INTERMEDIATE TOURIST	27	1.39	1.34	.78	13.7
TOURIST	LOW TOURIST	33	1.39	1.38	.74	11.3
	TOURIST	69	1.81	1.75	.63	17.5
	HIGH TOURIST	68	1.99	1.81	.46	21.6
REC	LOW RECREATION	5	1.69	1.30	.66	21.5
	RECREATION	36	1.84	1.37	.55	20.8
	HIGH RECREATION	28	1.92	1.50	.59	26.6

S.A.D.T., S.A.W.D.T., W.A.D.T. AND D.H.V. FACTORS FOR 1990

	PATTERN TYPE	PCS #	* MULTIPLY A.A.D.T. BY			
			SADT	SAWDT	WADT	DHV %
UNCLASSIFIED	RAMP	24,44	.99	1.11	.96	11.0
	WOODSTOCK	43	1.18	1.08	.87	11.3
	BELFIELD	34	1.05	1.17	.96	10.2
	LONDON	45	1.17	1.12	.88	12.5
	KENORA	86	1.85	1.56	.59	21.6
	THUNDER BAY	47	1.51	1.41	.71	14.3

Appendix c

Statistics Canada
Statistique Canada

Ottawa, Canada
K1A 0T6

December 19, 1990

Mr. James F. Lucey
Manager
Highway Planning Office
Transportation Capital Branch
4th Floor, West Tower
1201 Wilson Avenue
Downsview, Ontario
M3M 1J8

Dear Mr. Lucey:

This is in reference to your letter dated November 22, 1990, in which you are requesting traffic data for the Ambassador Bridge at Windsor.

The Ambassador Bridge authorities are providing us with monthly traffic totals to which the 7 or 8 sample day counts, obtained from Canada customs, are weighted. The President of this privately owned company has specifically requested that these figures not be released to anyone as he is considering them confidential.

Section 17 of the Statistics Act prohibits again divulging this information. Under these circumstances, I unfortunately cannot comply with your demand.

Sincerely,

Paul L. Paradis
Chief
International Travel Section
15th Floor, R.H. Coats Bldg.
Ottawa, Ontario

Canada